

## INDEX OF SUBJECTS

### Original Articles

#### A

- ABO hemolytic disease of newborn, 677
- Abell-Kendall method, for high-density lipoprotein cholesterol, 564
- Acid phosphatase, see Tartrate-resistant acid phosphatase
- Acinic cell tumors, of minor salivary glands (abstract), 614
- Adenocarcinoma
  - endometrial, ovarian histology in, 253
  - vaginal, and glandular dysplasia with DES-associated adenosis, 715
- Adenoma
  - parathyroid, with medullary thyroid carcinoma, 595
  - pituitary microadenoma with lymphoma of brain, 724
- Adenomatoid malformation, bronchiolar, 411
- Adenosarcoma of uterus, ultrastructure of, 112
- Adenosine diphosphate, and platelet aggregation, factors affecting, 263
- Adenosis
  - of breast
    - blunt ductal, 240
    - sclerosing, 240
  - vaginal, after DES exposure, glandular dysplasia with, 715
- Adenovirus
  - hepatitis from, in immunosuppressed patient, 352
  - and intrinsic coagulation inhibitor in young child, 470
- Agar diffusion
  - in antibiotic susceptibility tests, Petri dish concavity affecting, 433
  - for grouping of streptococci, 709
- Agar electrophoresis, for hemoglobins Wood and Malmö, 668
- Alcoholism
  - granulocyte adherence in, 269
  - hepatic disease with, and IgA deposits in liver, 51
- Alkaline phosphatase, assays affected by bacterial contamination of reagent water, 319
- Amebas in soil, recovered from nasal passage in dusty periods, 201
- Amyloidosis, renal
  - and electron microscopy of urinary sediment (abstract), 613
  - urinary sediment ultrastructure in, 36
  - and universal presence of fibrillar proteins, 40
- Anal skin, multiple apocrine fibroadenomas of, 356
- Analytical goals, in clinical chemistry, 624
- Anclod clottability, and fibrinogen assay, 521
- Angioimmunoblastic lymphadenopathy, nephropathy in, 58
- Angioma, and intravascular endothelial proliferations in children, 247
- Angiosarcoma, and intravascular endothelial proliferations in children, 247
- Antibodies, see Immunology
- Anticoagulants
  - see also Heparin
  - and monitoring in dual anticoagulant therapy, 665
- Antigens, see Immunology
- Antimicrobial agents
  - minimal lethal concentrations of, tests for, 88
  - monitoring of tobramycin in serum, 428
  - resistance transfer in *Yersinia enterocolitica*, 93

### Antimicrobial susceptibility tests

- automated system versus Kirby-Bauer disk diffusion (letters), 131, 133
- Petri dish concavity affecting, 433
- rapid urine-culture system for, 177
- Antinuclear antibodies, identification of, 333, 437
- Antithrombin III
  - and cardiopulmonary bypass (abstract), 612
  - oral contraceptives affecting levels of (letters), 360
- $\alpha_1$ -Antitrypsin
  - assay with centrifugal fast analyzer, 301
  - and P<sub>i</sub> typing of stored postmortem blood, 549
- API 20E system, for detection of bacterial mixtures, 704
- Appendicitis, from *Yersinia pseudotuberculosis*, 631
- APTT, see Thromboplastin, activated partial thromboplastin time
- Arboviruses, group B, and dengue viral antigen detection with counterimmunoelectrophoresis, 102
- ASCP/APC/CAP Joint Task Force of Pathology Manpower, report of, 615
- Aspergillus* mural endocarditis, 640
- Auer body-like inclusions, cytoplasmic, in acute leukemia with monoclonal gammopathy, 151
- Automated systems
  - for antimicrobial susceptibility (letters), 131, 133
  - blood smear analyzer, 685
  - for differential blood counts, 685, 695
- Autophagolysosomes, in acute leukemia cells with monoclonal gammopathy, 151
- Autopsy, see Postmortem studies

#### B

### Bacteria

- adherence to B and T cells (abstract), 609
- antigen detection with counterimmunophoresis in blood cultures, 326, 330
- contamination of reagent water in laboratory tests, 319
- detection of mixtures with identification kits, 704
- Bacteriocin typing, of *Serratia marcescens*, 172
- Bacteroides fragilis*, identification with fluorescent antibody conjugates, 97
- Bile acids, in pediatric hepatobiliary disease, 444
- Biopsy
  - bone-marrow, in metastatic breast cancer, 31
  - liver, and IgA deposits in alcoholic hepatic disease, 51
- Blastomycosis, pulmonary, cytologic diagnosis of (abstract), 612
- Bleeding time, Ivy, in malignancies, 10
- Blood
  - automated smear analyzer, 685
  - cell counts, see Cells, differential counts
  - coagulation of, see Coagulation
  - cultures
    - counterimmunoelectrophoresis of, 326, 330
    - radiometric detection of *Haemophilus* in, 190
  - occult, in feces, nonuniform distribution of, 204
  - platelet storage in, compared to storage in plasma, 379
  - postmortem, P<sub>i</sub> typing of, 549
  - specimen transport in pneumatic tube system (letters), 481
  - stored, clotting factor activity in, (abstract), 613
  - transfused, see Transfusions

- Blood bank  
and genetic research in laboratory, 1  
quality assurance in, 286
- Bone marrow  
abnormalities simulating histiocytic medullary reticulosis, 600  
culture of lymphoma cells, autoantibody synthesis in, 473  
granulomas in Q fever, 117  
malignant lymphoma of (abstract), 608  
metastases from breast cancer, 31  
sequential light and electron microscopy of particles (abstract), 607  
touch preparations of biopsy specimens (abstract), 607  
transplantation of cadaveric cells (abstract), 608
- Brain  
creatine phosphokinase in, electrophoretic mobility of, 75  
lymphoma of, with pituitary microadenoma, 724
- Breast  
carcinoma of  
development after fibrocystic disease (abstract), 614  
estrogen receptor levels in, 497, 504  
ethnic differences in histologic types of, 142  
and juxtanuclear lymphocytes in histocultures, 64  
metastasis to bone marrow, hematologic findings in, 31  
tubular, and nonencapsulated sclerosing lesions, 240  
chondrosarcoma of, 345  
lactational changes with lymphoma of brain, 724  
ochronosis in, 349  
sclerosing lesions of, nonencapsulated, 240
- Bronchiolar malformation, congenital, 411
- C**
- C-cell hyperplasia, and medullary thyroid carcinoma with hyperparathyroidism, 595
- Calcium  
hypercalcemia with C-cell hyperplasia, and medullary thyroid carcinoma, 595  
spurious hypocalcemia in hemodialysis patients, 215
- Calibration, of secondary reference materials (abstract), 612
- Cancer, see Neoplasia
- Candida*  
infection of gastric ulcers, 137  
*tropicalis*, germ-tube-positive (letters), 130, 131
- Candidosis, deep, problems of, (abstract), 609
- Capillary precipitation, for grouping of streptococci, 709
- Carcinoembryonic antigen  
in pleural effusions, 210  
as tumor marker, 483
- Carcinoma  
of breast, see Breast  
endometrial, ovarian histology in, 253  
gastric, with bone marrow abnormalities simulating histiocytic medullary reticulosis, 600  
hepatocellular, and cytoplasmic HBsAg in cells, 229  
of prostate, with chronic granulocytic leukemia and CLL (abstract), 613  
of stomach, after gastroenterostomy, 341  
thyroid, medullary, with parathyroid adenoma, 595  
vaginal, and glandular dysplasia with DES-associated adenosis, 715
- Cardiopulmonary bypass, and antithrombin activity (abstract), 612
- Cells  
see also Cytology and specific cell types
- C-cell hyperplasia, in medullary thyroid carcinoma with hyperparathyroidism, 595
- cytotoxic kidney antibody associated with renal transplant, 543
- differential counts  
automated, 685, 694  
with Honeywell ACS-1000 (letters), 737
- intravascular endothelial proliferations in children, 247
- juxtanuclear lymphocytes in histocultures of mammary cancer, 64
- smudge cells affecting leukocyte counting, 161
- Cellulose acetate electrophoresis  
for hemoglobin A in newborn blood, 441  
for hemoglobin A<sub>2</sub>, 388
- Central nervous system  
electrophoretic mobility of creatine phosphokinase in brain, 75  
pituitary microadenoma with lymphoma of brain, 724  
reticular dendritic spines in SIDS (abstract), 611
- Centrifchem, for fibrinogen assay, 521
- Centrifugal fast analyzer, for serum proteins, 301
- Ceruloplasmin, in pleural effusions, 210
- Chemistry, clinical, analytical goals in, 624
- Chemotherapy, and osteomalacic new bone formation in AGL, 645
- Childhood  
see also Neonates  
bile acids in hepatobiliary disease, 444  
detection of hemoglobin A in newborn blood, 441  
intravascular endothelial proliferations in, 247  
intrinsic coagulation inhibitor in young child, 470  
sudden infant death syndrome  
reticular dendritic spines in (abstract), 611  
vitreous humor chemistry in, 219
- Cholestasis  
in infancy, serum bile acids in, 444  
intrahepatic, biochemical features of, 557
- Cholesterol  
free/esterified ratio in serum, 83  
high-density lipoprotein, 564  
hormone replacement therapy affecting (abstract), 609  
levels in various diseases (abstract), 611
- Chondrosarcoma, of breast, 345
- Chromatography, liquid, high-pressure, for serum tobramycin levels, 428
- Circadian variations, in estriol levels (abstract), 610
- Clinical pathology, see Pathology
- Clotting factors, see Factors
- Clotting time  
thrombin, see Thrombin time  
whole blood  
heparin affecting, 397  
as heparin monitoring test, 17
- Coagglutination, for grouping of streptococci, 709
- Coagulation  
abnormalities in malignancies, 10  
and activated partial thromboplastin time, see under Thromboplastin  
clotting factor activity in stored whole blood (abstract), 613  
and computer program for analysis of clotting factor assays, 167  
and evaluation of methods for fibrinogen assay, 521  
and fibrinolysis in familial pulmonary hypertension, 384  
and Fletcher factor assay, 570  
and heparin monitoring tests, 17, 397  
intrinsic inhibitor in young child, 470  
and platelet structure, 363  
and prothrombin assay with synthetic substrate S-2238 (abstract), 613

- prothrombin time after heparin removal, 665
- and re-evaluation of von Willebrand's diagnosis, 26
- tests affected by bacterial contamination of reagent water, 319
- Collagen, and platelet aggregation, factors affecting, 263
- Colorimetric analysis, multilayer films in (abstracts), 606
- Commission on World Standards in Clinical Pathology, statement on measurable properties and units, 465, 469
- Complement, assay with centrifugal fast analyzer, 301
- Computer system
  - for analysis of clotting factor assays, 167
  - in private laboratory
    - for cytology, 421
    - for histology, 257
- Connective tissue diseases, and immunofluorescence of skeletal muscle (abstract), 605
- Contamination, bacterial, of reagent water in laboratory tests, 319
- Contraceptives, oral, and antithrombin III measurements (letters), 360
- Coronary heart disease, and high-density lipoprotein cholesterol levels, 564
  - hormone replacement therapy affecting (abstract), 609
- Cost analysis, of microbial identification systems, 194
- Coumarins, with heparin, monitoring of, 665
- Counterimmunoelectrophoresis
  - of blood cultures, 326, 330
  - in dengue viral antigen detection, 102
  - and value of urine for detection of bacterial antigen in neonatal septicemia (abstract), 613
- Creatine kinase, assays affected by bacterial contamination of reagent water, 319
- Creatine phosphokinase, stability of isozymes of, 75
- Cross-matching of blood, preoperative, and guideline for transfusion therapy, 578, 680
- Cryoglobulins, crystal cryoprecipitates of, ultrastructure of, 404
- Cryptococcal infections, aids for diagnosis of (abstract), 605
- Crystalcryoglobulins, ultrastructure of, 404
- Cultures
  - blood
    - counterimmunoelectrophoresis of, 326, 330
    - radiometric detection of *Haemophilus* in, 190
  - bone marrow, and autoantibody synthesis by lymphoma cells, 473
  - rapid urinary culture system, 177
  - tissue
    - of mammary cancer, juxtanuclear lymphocytes in, 64
    - of olfactory placode tumors (abstract), 614
- Cyst
  - congenital cystic malformation of lung, 411
  - fibrocystic disease of breast, and cancer development (abstract), 614
  - polycystic ovarian disease, and endometrial adenocarcinoma, 253
- Cystic fibrosis, and serum bile acids in infancy, 444
- Cytochemical test, for tetrahydrofolate in leukocytes, 574
- Cytology
  - and computer system in private laboratory, 421
  - of lymphomas, 651
  - of pulmonary blastomycosis (abstract), 612
- Cytomorphology, of breast cancer, correlation with estrogen receptor levels, 497
- Cytoplasm
  - inclusions in acute leukemia with monoclonal gammopathy, 151
  - spurious platelet counts from fragments in leukemic phase of lymphocytic lymphoma, 125
- Cytotoxic kidney antibody, associated with renal transplant, 543

## D

- DEAE cellulose microchromatography, for hemoglobin A<sub>2</sub>, 388
- Dengue viral antigens, detection with counterimmunoelectrophoresis, 102
- Dialysis, and spurious hypocalcemia in patients, 215
- Diarrhea in infancy, serum bile acids in, 444
- Dieterle stain, for Legionnaire's disease agent, 109
- Diethylstilbestrol exposure, and vaginal adenosis with glandular dysplasia, 715
- Digoxin, radioimmunoassay affected by bacterial contamination of reagent water, 319
- Disk diffusion test, compared to automated antimicrobial susceptibility system (letters), 131, 133
- Dusty periods, and soil amebas found in nasal passages, 201

## E

- Education, and residency training in clinical pathology, 457
- Effusions, pleural, biochemical analysis of, diagnostic value of, 210
- Elastosis, of breast, 240
- Electrodes, ion-selective (letters), 481
- Electrophoresis
  - agar, for hemoglobins Wood and Malmö, 668
  - cellulose acetate
    - for hemoglobin A in newborn blood, 441
    - for hemoglobin A<sub>2</sub>, 388
  - of creatine phosphokinase, and stability of isozymes, 75
- Emperipolesis, in histocultures of mammary cancer, 64
- Endocarditis
  - mural, *Aspergillus*, 640
  - from *Torulopsis glabrata* (letters), 737
- Endometrium, adenocarcinoma of, ovarian histology in, 253
- Endothelial cells, intravascular proliferations in children, 247
- Epithelium
  - renal fragments in urinary sediment (abstract), 606
  - syncytial and medullary duct, in thymus and thymomas (abstract), 614
- Erythrocytes
  - automated differential counter for, 685
  - enzymes in phenotyping of, 672
  - in mysospherulosis (letters), 130
- Erythrocytosis, hemoglobin variants in, 668
- Estesioneuroblastoma (abstract), 614
- Estril levels, circadian variations of (abstract), 610
- Estrogen receptors, in breast cancer, 497
  - histochemical detection of, 504
- Ethnic differences, in mammary carcinoma histologic types, 142
- Euglobulin lysis time, in malignancies, 10

## F

- Factor I, see Fibrinogen
- Factor II, see Prothrombin
- Factor V
  - activity in stored whole blood (abstract), 613
  - assay after heparin therapy, 397
  - assay in malignancies, 10
- Factor VII, assay in malignancies, 10
- Factor VIII
  - activity in stored whole blood (abstract), 613
  - assay after heparin therapy, 397
  - assay in malignancies, 10
  - deficiency of, detection with APTT test, 22
- Factor VIII-related antigen, assay in von Willebrand's disease, 26

- Factor IX  
 assay after heparin therapy, 397  
 deficiency of, detection with APTT test, 22
- Factor X  
 assay after heparin therapy, 397  
 assay in malignancies, 10
- Factor XI  
 deficiency of, detection with APTT test, 22  
 inhibitors against, in young child, 470
- Factor XII deficiency, detection with APTT test, 22
- Feces, occult blood in, nonuniform distribution of, 204
- $\alpha$ -Fetoprotein, as tumor marker, 483
- Fibrils in urinary sediment  
 in renal amyloidosis, 36  
 universal presence of, 40
- Fibrin degradation products, in malignancies, 10
- Fibrinogen  
 assay after heparin therapy, 397  
 evaluation of assay methods for, 521  
 levels in malignancies, 10
- Fibrinolysis, in familial pulmonary hypertension, 384
- Fibroadenomas, multiple apocrine, of anal skin, 356
- Fibrocystic disease of breast, and cancer development (abstract), 614
- Fitzgerald trait, detection with APTT test, 22
- Fletcher factor  
 deficiency of, detection with APTT test, 22  
 sensitivity of assay for, 570
- Fluorescent antibody conjugates, polyvalent, for identification of *Bacteroides fragilis*, 97
- Fluorescent estradiol conjugate, for detection of estrogen receptors in breast cancer, 504
- Fluorescent gonorrhea test—heated (FGT-H), 184

## G

- Galactorrhea, in pituitary microadenoma with lymphoma of brain, 724
- Gammopathies, monoclonal, in acute leukemia, 151
- Gastric ulcer, candidal infection of, 137
- Gastroenterostomy, and stomal polyp formation, 341
- Gastrointestinal tract, infection with *Yersinia pseudotuberculosis*, 631
- Gaucher cells  
 surface ultrastructure of, 146  
 tartrate-resistant acid phosphatase stain for (letters), 361
- Genetic research, in blood bank laboratory, 1
- Germ-tube test, for *Candida tropicalis* (letters), 130, 131
- Glomerulonephritis, crescentic, and renal failure with lymphomas, 728
- Glucose, and Kodak 2/2 Glucose-BUN Analyzer (abstract), 606
- Glucose oxidase immunoenzyme, for antigen localization, 492
- Gm allotypes, in paternity testing, 281
- Gonorrhea, and fluorescent gonorrhea test—heated, 184
- Granulocytes, adherence in chronic alcoholism, 269
- Granuloma, bone marrow, in Q fever, 117
- Granulomatous disease, chronic, modified NBT test in, 583

## H

- Haemophilus*  
*influenzae*, detection with counterimmunoelectrophoresis in blood cultures, 326, 330  
 radiometric detection in simulated blood cultures, 190
- Hairy cell leukemia, see Reticuloendotheliosis, leukemic

- Haptoglobin, assay with centrifugal fast analyzer, 301
- Harmattan period, and recovery of soil amebas from nasal passages, 201
- Heart  
*Aspergillus* mural endocarditis, 640  
 endocarditis from *Torulopsis glabrata* (letters), 737  
 radioimmunoassay of cardiac myosin light chains, 309
- Hemagglutination test, for antibodies to extractable nuclear antigen, 333, 437
- Hemangioendothelioma, and intravascular endothelial proliferations in children, 247
- Hematology  
 laboratory performance in V. A. hospitals, 291  
 problems in quality control (abstract), 607
- Hematoma, and intravascular endothelial proliferations in children, 247
- Hemoccult tests, evaluation of, 204
- Hemodialysis, and spurious hypocalcemia in patients, 215
- Hemoglobin  
 A type, detection in newborn blood, 441  
 A<sub>2</sub>  
 methods for quantitation of, 388  
 quantitation in interlaboratory study, 534  
 comparison of Hb Wood and Malmö, 668
- Hemolytic disease of newborn  
 in ABO incompatibility, 677  
 with anti-Di<sup>b</sup>, 713
- Hemolytic transfusion reaction, severe delayed (abstract), 609
- Hemophilia  
 detection with APTT test, 22  
 differentiation from von Willebrand's disease, 26
- Hemostasis, see Coagulation
- Heparin  
 and activated partial thromboplastin time (letters), 480  
 monitoring of  
 blood samples in, 17, 25  
 coagulation tests in, 397  
 prothrombin time after heparin removal, 665  
 and spurious hypocalcemia in hemodialysis patients, 215
- Hepatitis  
 see also Liver  
 from adenovirus, in immunosuppressed patient, 352  
 neonatal, serum bile acids in, 444
- Hepatitis B surface antigen, in cells of hepatocellular carcinoma, 229
- Hepatobiliary disease, and biochemical features of intrahepatic cholestasis, 557
- Hexosaminidase, in pleural effusions, 210
- Histiocytic medullary reticulosis, simulation by bone marrow abnormalities in gastric cancer, 600
- Histochemical detection, of estrogen receptors in breast cancer, 504
- Histocultures, see Cultures, tissue
- Histology  
 of breast cancer, correlation with estrogen receptor levels, 497  
 of enteric infection with *Yersinia pseudotuberculosis*, 631  
 of lymphomas, correlation with immunologic markers, 651  
 ovarian, in endometrial adenocarcinoma, 253  
 and staining for cellular hormone products, 489
- Histoplasmosis, differentiated from cryptococcal infections (abstract), 605
- Hodgkin's disease, bone marrow in (abstract), 608
- Honeywell ACS-1000, evaluation of (letters), 737
- Hormones  
 identification in endocrine tumors, 483, 489



- replacement therapy affecting high-density lipoprotein cholesterol (abstract), 609
- Hypercalcemia, and C-cell hyperplasia in medullary thyroid carcinoma, 595
- Hyperparathyroidism, and medullary thyroid carcinoma, 595
- Hypersplenism, and peliosis of spleen, 586
- Hypertension, pulmonary, familial, fibrinolysis in, 384
- Hypocalcemia, spurious, in hemodialysis patients, 215
- Hypokalemia, with hypomagnesemia in hospitalized patients (abstract), 610
- Hypomagnesemia, with hypokalemia in hospitalized patients (abstract), 610
- Hypothalamus, in lymphoma of brain with pituitary microadenoma, 724

## I

- Ileitis, from *Yersinia pseudotuberculosis*, 631
- Immunoblastic disorders
  - angioimmunoblastic lymphadenopathy with nephropathy, 58
  - sarcoma following Waldenström's macroglobulinemia, 121
- Immunochemical analysis, for lactic dehydrogenase (abstract), 610
- Immunodiffusion
  - for antibodies to extractable nuclear antigen, 333, 437
  - radial, and distribution of quality control data, 554
- Immunoenzymatic methods, with glucose oxidase, 492
- Immunofluorescence
  - of estrogen receptors in breast cancer, 504
  - of lymphoma cells, 651
  - of necropsy kidney tissue (abstract), 605
  - of skeletal muscle in connective tissue diseases (abstract), 605
  - of skin diseases (abstract), 606
- Immunoglobulins
  - allotyping in paternity testing, 281
  - assay with centrifugal fast analyzer, 301
  - classes demonstrated in tumors, 483
  - dermal deposits of, significance of (abstract), 605
  - hyperglobulinemia with proteinaceous lymphadenopathy (abstract), 608
  - IgA-bearing cells in IgA nephropathy, 158
  - IgA deposits in liver, in alcoholic hepatic disease, 51
  - IgM monoclonal gammopathy in acute leukemia, 151
  - surface markers in hairy cell leukemia, 273
  - ultrastructure of cryoprecipitates, 404
- Immunohistologic staining, of polypeptide hormones, 489
- Immunology
  - anti-B1 cold agglutinin in lymphoma, 473
  - bacterial antigen detection in blood cultures with CIE, 326, 330
  - cytotoxic kidney antibody associated with renal transplant, 543
  - dengue viral antigen detection by acounterimmunoelectrophoresis, 102
  - hemolytic disease of newborn
    - in ABO incompatibility, 677
    - with anti-Di<sup>b</sup>, 713
  - measurement of antibodies to extractable nuclear antigen, 333, 437
  - polyvalent fluorescent antibody conjugates for *Bacteroides fragilis* identification, 97
  - serologic test for antigenococcal antibodies, 184
  - Staphylococcus aureus* antigen in glomeruli (letters), 737
  - surface markers in lymphomas, 651
  - thyroid-stimulating hormone antibodies affecting RIA for TSH, 540
  - type and antibody screen order for transfusions, 578, 680

- Immunonephelometry, with centrifugal fast analyzer, for serum proteins, 301
- Immunoperoxidase techniques, in diagnostic pathology, 483, 489
- Immunosuppressive therapy
  - and acute leukemia development (abstract), 608
  - and adenovirus hepatitis development, 352
- Inclusions
  - cytoplasmic, in acute leukemia with monoclonal gammopathy, 151
  - in hepatic mitochondria (letters), 479
- Infarction, myocardial, and radioimmunoassay of cardiac myosin light chains, 309
- International Symposium on Quantities and Units, 465, 469
- Ion-selective electrodes (letters), 481
- Iron
  - colloidal, interaction with hairy cells (letters), 134
  - deficiency of, total iron-binding capacity in, 401
- Isozymes of creatine phosphokinase, stability of, 75

## K

- Kaposi's sarcoma, in lymph nodes, concurrent with CLL, 234
- Kidney
  - amyloidosis of, urinary sediment ultrastructure in, 36, (abstract) 613
  - and universal presence of fibrillar proteins, 40
  - crescentic glomerulonephritis and renal failure with lymphomas, 728
  - cytotoxic antibody associated with renal transplant, 543
  - epithelial fragments in urinary sediment (abstract), 606
  - IgA nephropathy with IgA-bearing cells, 158
  - immunofluorescence of necropsy tissue (abstract), 605
  - nephropathy in angioimmunoblastic lymphadenopathy, 58
  - Staphylococcus aureus* antigen in glomeruli (letters), 737
- Klebsiella pneumoniae*, detection with counterimmunoelectrophoresis in blood cultures, 326, 330
- Km allotypes, in paternity testing, 281
- Kodak 2/2 Glucose-BUN Analyzer (abstract), 606

## L

- Laboratory
  - bacterial contamination of reagent water in, 319
  - computer system in
    - for cytology, 421
    - for histology, 257
  - interlaboratory study of Hb A<sub>2</sub> quantitation, 534
  - Steiner method modified for spirochetes in tissue, 109
  - survey of hematologic data in V. A. hospitals, 291
- Lactate dehydrogenase
  - assays affected by bacterial contamination of reagent water, 319
  - immunochemical determination of (abstract), 610
- Lactogen, placental, as test for neonatal risk, 72
- Legionnaire's disease
  - Dieterle stain for, 109
  - ultrastructure of organism in lung, 43
- Leukemia
  - acute
    - from immunosuppressive therapy (abstract), 608
    - monoclonal gammopathies in, 151
  - acute granulocytic, osteomalacic new bone formation in, 645
  - chronic granulocytic, with prostatic carcinoma and CLL (abstract), 613
  - chronic lymphatic
    - with Kaposi's sarcoma in lymph nodes, 234
    - membrane-ribosomal lamellae in (abstract), 607

- with prostatic carcinoma and CGL (abstract), 613
- smudge cells in, affecting leukocyte count, 161
- chronic myelomonocytic (letters), 357
- and cytoplasmic fragments causing spurious platelet counts, 125
- hairly cell, see Reticuloendotheliosis, leukemic
- Leukocytes**
  - automated differential counter for, 685, 695
  - counting of, affected by smudge cells, 161
  - migration inhibition test in sarcoidosis (letters), 734
  - in modified NBT test, 582
  - tetrahydrofolate in, cytochemical test for, 574
- Levine Award Lecture, 1
- Lipid metabolism, and free/esterified cholesterol ratio in serum, 83
- Lipoprotein**
  - high-density lipoprotein cholesterol, 564
  - hormone replacement therapy affecting (abstract), 609
  - levels in various diseases (abstract), 611
  - low-density, assay with centrifugal fast analyzer, 301
- Liver**
  - adenovirus hepatitis in immunosuppressed patient, 352
  - alcoholic disease of, IgA deposits in, 51
  - bile acids in pediatric hepatobiliary disease, 444
  - biochemical features of intrahepatic cholestasis, 557
  - cytoplasmic HBsAg in cells of hepatocellular carcinoma, 229
  - inclusions in hepatic mitochondria (letters), 479
  - pathology in Wilson's disease (abstract), 611
- Lung**
  - blastomycosis of, cytologic diagnosis of (abstract), 612
  - congenital cystic malformation of, 411
  - Legionnaire's disease organism ultrastructure in, 43
- Lupus erythematosus**
  - and antibodies to extractable nuclear antigen, 333, 437
  - and immunofluorescence of skeletal muscle (abstract), 605
- Lymph nodes, Kaposi's sarcoma in, concurrent with CLL, 234**
- Lymphadenitis, mesenteric, from *Yersinia pseudotuberculosis*, 631**
- Lymphadenopathy**
  - angioimmunoblastic, nephropathy in, 58
  - proteinaceous, with hyperglobulinemia (abstract), 608
- Lymphocytes**
  - bacterial adherence to B and T cells (abstract), 609
  - juxtanuclear, in histocultures of mammary cancer, 64
  - in peripheral blood
    - IgA-bearing cells in IgA nephropathy, 158
    - tartrate-resistant acid phosphatase staining of (letters), 133
  - phytohemagglutinin activation (letters), 604
  - transformation pathophysiology, 509
- Lymphomas**
  - composite, 509
  - histiocytic
    - of brain, with pituitary microadenoma, 724
    - immunologic markers in, 657
  - Hodgkin's, bone marrow in (abstract), 608
  - lymphocytic
    - and angioimmunoblastic lymphadenopathy with nephropathy, 58
    - anti-B1 cold agglutinin in, 473
    - of bone marrow (abstract), 608
    - crescentic glomerulonephritis and renal failure with, 728
    - and cytoplasmic fragments causing spurious platelet counts in leukemic phase, 125
    - and immunoblastic sarcoma following Waldenström's macroglobulinemia, 121
    - immunologic markers in, 651
  - Lysozyme, in pleural effusions, 210

## M

- $\alpha_2$ -Macroglobulin
  - assay with centrifugal fast analyzer, 301
  - in pleural effusions, 210
- Macroglobulinemia, Waldenström's, and immunoblastic sarcoma development, 121
- Magnesium, hypomagnesemia with hypokalemia in hospitalized patients (abstract), 610
- Malignancies, see Neoplasia
- Mammary carcinoma, see Breast, carcinoma
- Medical care, and analytical goals in clinical chemistry, 624
- Medullary duct epithelium, of thymus and thymomas (abstract), 614
- Meningitis, from *Neisseria meningitidis*, group Y (letters), 736
- Metastases to bone marrow, from breast cancer, 31
- Microbial identification, cost analysis of systems for, 194
- Microchromatography, DEAE cellulose, for hemoglobin A<sub>2</sub>, 388
- Microglioma of brain, with pituitary microadenoma, 724
- $\beta_2$ -Microglobulin, in pleural effusions, 210
- Microscopy**
  - electron
    - of crystalcryoglobulins, 404
    - of Gaucher cell surface, 146
    - of Legionnaires disease organism in lung, 43
    - of olfactory placode tumors (abstract), 614
    - sequential light and EM examination of bone marrow particles (abstract), 607
    - of skin diseases (abstract), 606
    - of urinary sediment in amyloidosis, 36, 40, (abstract) 613
    - of uterine adenosarcoma, 112
  - light
    - of olfactory placode tumors (abstract), 614
    - sequential light and EM examination of bone marrow particles (abstract), 607
- Minicomputer in private laboratory
  - for cytology, 421
  - for histology, 257
- Mitochondria, hepatic, inclusions in (letters), 479
- Monitoring
  - in dual anticoagulant therapy, 665
  - of heparin, coagulation tests in, 17, 397
  - of tobramycin levels in serum, 428
- Multilayer films, for colorimetric analysis (abstracts), 606
- Muscle**
  - creatine phosphokinase in, electrophoretic mobility of, 75
  - immunofluorescence in connective tissue diseases (abstract), 605
  - Mycosis fungoides, differential diagnosis of, 528
- Myeloma cells, phagocytic, 722
- Myocardial infarction, and radioimmunoassay of cardiac myosin
  - light chains, 309
- Myosin light chains, cardiac, radioimmunoassay of, 309
- Myospherulosis, erythrocytic nature of (letters), 130

## N

- Naegleria fowleri*, in nasal passages during dusty periods, 201
- Nasal passages, soil amebas in, during dusty periods, 201
- National Cancer Institute, workshop on immunoperoxidase techniques, 483
- Necropsy, see Postmortem studies
- Neisseria meningitidis*
  - detection with counterimmunoelectrophoresis in blood cultures, 330
  - group Y, meningitis from (letters), 736

## Neonates

- detection of hemoglobin A in blood, 441
- hemolytic disease
  - in ABO incompatibility, 677
  - with anti-Di<sup>b</sup>, 713
- placental lactogen as test for risks in, 72
- septicemia of, and value of urine for detection of bacterial antigen (abstract), 613

## Neoplasia

- see also Carcinoma and other specific tumor types
  - acinic cell tumors of minor salivary glands (abstract), 614
  - of breast, see Breast
  - demonstration of tumor markers, 483
  - and free/esterified cholesterol ratio in serum, 83
  - glandular dysplasia in DES-associated vaginal adenosis, 715
  - hemostatic abnormalities in malignancies, 10
  - immunoblastic sarcoma following Waldenström's macroglobulinemia, 121
  - and intravascular endothelial proliferations in children, 247
  - Kaposi's sarcoma in lymph nodes concurrent with CLL, 234
  - lymphoma, see Lymphoma
  - medullary thyroid carcinoma with parathyroid adenoma, 595
  - multiple apocrine fibroadenomas of anal skin, 356
  - olfactory placode tumors (abstract), 614
  - pituitary microadenoma with lymphoma of brain, 724
  - pleural fluid analysis in, 210
  - polypeptide-forming tumor cells in, 483, 489
  - stomal polyps after gastroenterostomy, 341
  - syncytial and medullary duct epithelium of thymomas (abstract), 614
  - tartrate-resistant acid phosphatase in neoplastic cells, 528
  - uterine adenosarcoma, ultrastructure of, 112
  - verruciform xanthoma of vulva, 224
- Nephelometry, with immunoassay and centrifugal fast analyzer, for serum proteins, 301
- Nephropathy, see Kidney
- Nervous system, central
- electrophoretic mobility of creatine phosphokinase in brain, 75
  - pituitary microadenoma with lymphoma of brain, 724
  - reticular dendritic spines in SIDS (abstract), 611
- Neutrophils, adhesiveness in chronic alcoholism, 269
- Newborn, see Neonates
- Nitroblue tetrazolium
- in immunoenzymatic stains, 492
  - modified test using phorbol myristate acetate, 582
- Nuclear antigen, extractable, antibodies to, 333, 437

## O

- Obstetric conditions, see Pregnancy
- Ochronosis, in breast, 349
- Olfactory placode tumors (abstract), 614
- Orosomucoid
  - assay with centrifugal fast analyzer, 301
  - in pleural effusions, 210
- Osteomalacia, of new bone formation during chemotherapy in AGL, 645
- Ovaries
  - histology in endometrial adenocarcinoma, 253
  - polycystic disease of, and endometrial adenocarcinoma, 253
- Oxygen affinity, of hemoglobin variants in erythrocytosis, 668

## P

- P<sub>i</sub> typing, of stored postmortem blood, 549
- Panphagocytosis, in histiocytic medullary reticulosis, 600

Parathyroid adenoma, with medullary thyroid carcinoma, 595

## Paternity testing

- Gm and Km allotypes in, 281
- and phenotyping of erythrocytic enzymes, 672

## Pathology

- Commission on World Standards in Clinical Pathology, statement of measurable properties and units, 465, 469
- manpower for, task force report on, 615
- program for residency training, 457

PDP8/E minicomputer in private laboratory

- for cytology, 421
- for histology, 257

Pediatric conditions, see Children; Neonates

Peliosis, of spleen, 586

Penicillin, minimal lethal concentrations of, tests for, 88

Peroxidase-antiperoxidase method, in diagnostic pathology, 483, 489

Peroxidase-positive inclusions, in acute leukemia cells with monoclonal gammopathy, 151

Petri dish concavity, affecting antibiotic assays, 433

## Phagocytosis

- by myeloma cells, 722
- panphagocytosis in histiocytic medullary reticulosis, 600

Phenotyping, of erythrocytic enzymes, 672

Phorbol myristate acetate, in modified NBT test, 583

Phytohemagglutinin, lymphocyte activation (letters), 604

Pituitary microadenoma, with lymphoma of brain, 724

Placental lactogen, as test for neonatal risk, 72

Plasma cells, phagocytic, 722

## Platelets

## aggregation of

- factors affecting, 263
- after storage in plasma and in blood, 379

## counts of

- automated differential counter for, 685
- in malignancies, 10
- spurious, from cytoplasmic fragments in leukemic phase of lymphocytic lymphoma, 125

estimation from peripheral smears (letters), 359

function test results, profile of, 338

structure of, 363

thrombocytopathy with autosomal dominant thrombocytopenia (abstract), 612

pleural effusions, biochemical analysis of, diagnostic value of, 210

Pneumatic tube system, for transport of blood specimens (letters), 481

Polyarteritis nodosa, and immunofluorescence of skeletal muscle (abstract), 605

Polymyositis, and immunofluorescence of skeletal muscle (abstract), 605

Polyp(s), stomal, after gastroenterostomy, 341

## Polypeptide hormones

- histologic staining of, 489
- identification in endocrine tumors, 483

## Postmortem studies

cadaveric bone-marrow transplantation (abstract), 608

common artifacts in (abstract), 611

immunofluorescence studies of kidney tissue (abstract), 605

P<sub>i</sub> typing of blood, 549

underutilization of autopsy findings (abstract), 610

vitreous humor chemistry in sudden infant death syndrome, 219

Potassium, hypokalemia with hypomagnesemia in hospitalized patients (abstract), 610

Predictive value, of laboratory results (letters), 356

## Pregnancy

- and free/esterified cholesterol ratio in serum, 83
- and placental lactogen as test for neonatal risk, 72
- Prekallikrein, see Fletcher factor
- Prolactin, production in pituitary microadenoma with lymphoma of brain, 724
- Prostate carcinoma, with chronic granulocytic leukemia and CLL (abstract), 613
- Protamine sulfate test, in malignancies, 10
- Protein assays
  - affected by bacterial contamination of reagent water, 319
  - with centrifugal fast analyzer, 301
- Proteinaceous lymphadenopathy, with hyperglobulinemia (abstract), 608
- Prothrombin
  - assay with synthetic substrate S-2238 (abstract), 613
  - deficiency of, detection with APTT test, 22
- Prothrombin time
  - after heparin removal, 665
  - in malignancies, 10
  - results affected by bacterial contamination of reagent water, 319

## Q

- Q fever, bone marrow granulomas in, 117
- Quality control
  - in blood banks, 286
  - and distribution of radial immunodiffusion data, 554
  - and Petri dish concavity affecting antibiotic assays, 433
  - problems in (abstract), 607

## R

- Radioimmunoassay
  - and antibodies used for histologic staining of polypeptide hormones, 489
  - of bile acids in pediatric hepatobiliary disease, 444
  - of cardiac myosin light chains, 309
  - erroneous TSH results due to antbovine TSH antibodies, 540
  - results affected by bacterial contamination of reagent water, 319
- Radiometric detection, of *Haemophilus* in blood cultures, 190
- Recalcification time, whole-blood, as heparin monitoring test, 17
- Receptors
  - estrogen, in breast cancer, 497
  - histochemical detection of, 504
  - surface receptors in lymphoma cells, 651
- Reference materials, secondary, calibration of (abstract), 612
- Residency training, in clinical pathology, 457
- Resistance to antibiotics, transfer in *Yersinia enterocolitica*, 93
- Respiratory tract, and soil amebas in nasal passages during dusty periods, 201
- Reticuloendotheliosis, leukemic
  - and colloidal iron interaction with hairy cells (letters), 134
  - functional studies of, 273
  - membrane-ribosomal lamellae in (abstract), 607
  - and tartrate-resistant acid phosphatase in leukocytes (letters), 356, 482
  - transplantation into hamsters, and tumor production (letters), 358
- Reticulosis, histiocytic medullary, simulation by bone marrow abnormalities in gastric cancer, 600
- Reye's syndrome, and serum bile acids in infancy, 444
- Ribonucleoprotein, antibodies to, 333, 437
- Ristocetin cofactor assay, in von Willebrand's disease, 26

## S

- S-2238, as substrate in prothrombin assay (abstract), 613
- Salivary glands, minor, acinic cell tumors of (abstract), 614
- Sarcoidosis, leukocyte migration inhibition test in (letters), 734
- Sarcoma
  - chondrosarcoma of breast, 345
  - immunoblastic, following Waldenström's macroglobulinemia, 121
  - Kaposi's, in lymph nodes, concurrent with CLL, 234
- Sclerosing lesion of breast, nonencapsulated, 240
- Screening procedures, macroscopic urinalysis in, 452
- Serologic tests, see Tests
- Serratia marcescens*, bacteriocin typing of, 172
- Sézary syndrome, and tartrate-resistant acid phosphatase in cells, 528
- SIDS, see Sudden infant death syndrome
- Skin
  - anal, multiple apocrine fibroadenomas of, 356
  - dermal deposits of Ig, significance of (abstract), 605
  - electron microscopy of diseases (abstract), 606
  - intravascular endothelial proliferations in children, 247
  - in Sézary syndrome, 528
  - ulcer from *Vibrio alginolyticus*, 476
  - verruciform xanthoma of vulva, 224
- Sm antigen, antibodies to, 333, 437
- Smith Award Lecture, 363
- Smudge cells, affecting leukocyte counting, 161
- Soil amebas, recovered from nasal passages in dusty periods, 201
- Specimens
  - blood, transport in pneumatic tube system (letters), 481
  - fecal, tests for occult blood in, 204
- Spirochetes, Steiner stain for, 109
- Spleen, peliosis of, 586
- Splenectomy, in Waldenström's macroglobulinemia followed by immunoblastic sarcoma, 121
- Stains
  - Dieterle method for Legionnaire's disease agent, 109
  - fluorescent antibody, for *Bacteroides fragilis*, 97
  - immunoenzymatic, with glucose oxidase, 492
  - peroxidase-antiperoxidase techniques, 483, 489
  - Steiner method for spirochetes, 109
  - tartrate-resistant acid phosphatase, see Tartrate-resistant acid phosphatase
- Standards
  - analytic standards in clinical chemistry, 624
  - and calibration of secondary reference materials (abstract), 612
  - and International Symposium on Quantities and Units, 465, 469
  - and quantitation of Hb A<sub>2</sub>, 534
- Staphylococcus aureus*, antigen in glomeruli (letters), 737
- Steiner method, modified, for spirochetes in tissue, 109
- Steroid hormones, identification in endocrine tumors, 483
- Stomach
  - candidal infection of gastric ulcers, 137
  - carcinoma with bone marrow abnormalities, simulating histiocytic medullary reticulosis, 600
  - hyperplastic polyps of mucosa after gastroenterostomy, 341
- Stool specimens, tests for occult blood in, 204
- Streptococcus*
  - group B infections, and value of urine in detection of antigen in neonatal sepsis (abstract), 613
  - hemolytic, grouping techniques for, 709
  - pneumoniae*, detection with counterimmunoelectrophoresis in blood cultures, 326, 330



- Sudden infant death syndrome  
reticular dendritic spines in (abstract), 611  
vitreous humor chemistry in, 219  
Surgery, elective, guidelines for transfusions in, 578, 680  
Syncytial epithelium, of thymus and thymomas (abstract), 614

## T

- Tartrate-resistant acid phosphatase stain  
for Gaucher cells (letters), 361  
for leukocytes in leukemic reticuloendotheliosis (letters), 356, 482  
for lymphocytes in peripheral blood (letters), 133  
for Sézary syndrome cells, 528  
Technologist performance, and quality assurance in blood banks, 286  
Tests  
for antibodies to extractable nuclear antigens, 333, 437  
for antimicrobial susceptibility, see Antimicrobial susceptibility tests  
and bacterial contamination of reagent water, 319  
and cost analysis of systems for microbial identification, 194  
disk diffusion test compared to automated antimicrobial susceptibility system (letters), 131, 133  
germ-tube test for *Candida tropicalis* (letters), 130, 131  
gonococcal serologic test, 184  
for hemoglobin A<sub>2</sub>, 388  
heparin monitoring tests, 17, 25, 397  
leukocyte migration inhibition in sarcoidosis (letters), 734  
macroscopic urinalysis as screening procedure, 452  
with multilayer films for colorimetric analysis (abstracts), 606  
for neonatal risk, placental lactogen in, 72  
for occult blood in feces, 204  
for paternity, see Paternity testing  
platelet function profile in, 338  
and predictive values of laboratory results (letters), 316  
for tetrahydrofolate in leukocytes, 574  
Tetrahydrofolate, in leukocytes, cytochemical test for, 574  
Thalassemia, beta, and hemoglobin A<sub>2</sub> quantitation, 388, 534  
Thiazolyl blue, in immunoenzymatic stains, 492  
Thrombin time  
for fibrinogen assay, 521  
heparin affecting, 397  
in malignancies, 10  
results affected by bacterial contamination of reagent water, 319  
Thrombocytopenia, autosomal dominant, thrombocytopathy with (abstract), 612  
Thromboplastin  
activated partial thromboplastin time  
in Fletcher factor assay, 570  
heparin affecting, 397, (letters) 480  
as heparin monitoring test, 17, 25  
in malignancies, 10  
and minor coagulopathies, 22  
results affected by bacterial contamination of reagent water, 319  
Thrombosis, and heparin monitoring, 397  
Thymus, syncytial and medullary duct epithelium of (abstract), 614  
Thyroid carcinoma, medullary, with parathyroid adenoma, 595  
Thyroid-stimulating hormone  
erroneous RIA due to antibovine TSH antibodies, 540  
radioimmunoassay affected by bacterial contamination of reagent water, 319  
Tissue studies, see Cultures, tissue; Histology  
Tobramycin in serum, liquid chromatography of, 428  
*Torulopsis glabrata*, endocarditis from (letters), 737

- Touch preparations, of bone marrow biopsy specimens (abstract), 607  
Training, residency, in clinical pathology, 457  
Transferrin, assay with centrifugal fast analyzer, 301  
Transfusions  
guidelines for blood usage in elective surgery, 578, 680  
and quality assurance in blood banks, 286  
severe delayed hemolytic transfusion reaction (abstract), 609  
and type and antibody screen order, 578, 680  
Transplantation  
of cadaveric marrow cells (abstract), 608  
renal, cytotoxic kidney antibody associated with, 543  
*Treponema pallidum*, Steiner stain for, 109  
Tumors, see Neoplasia

## U

- Ulcer  
cutaneous, from *Vibrio alginolyticus*, 476  
gastric  
candidal infection of, 137  
and stomal polyps after gastroenterostomy, 341  
Ultrastructure, see Microscopy, electron  
Urea nitrogen in blood  
assays affected by bacterial contamination of reagent water, 319  
Kodak 2/2 Glucose-BUN Analyzer (abstract), 606  
Urine  
macroscopic analysis as screening procedure, 452  
rapid culture system for antimicrobial susceptibility testing, 177  
renal epithelial fragments in sediment (abstract), 606  
sediment ultrastructure in renal amyloidosis, 36, abstract 613  
and universal presence of fibrillar proteins, 40  
value in detection of bacterial antigen in neonatal septicemia (abstract), 613  
Uterus  
adenosarcoma of, ultrastructure of, 112  
endometrial adenocarcinoma, ovarian histology in, 253

## V

- Vaginal adenosis, after DES-exposure, glandular dysplasia with, 715  
Vasculature, endothelial proliferations in children, 247  
Venereal disease  
fluorescent gonorrhea test—heated, 184  
Steiner stain for *Treponema pallidum*, 109  
Verruciform xanthoma, of vulva, 224  
Veterans Administration, survey of hematologic data in hospitals, 291  
*Vibrio alginolyticus*, wound infection from, 476  
Viruses  
adenovirus  
and hepatitis in immunosuppressed patient, 352  
and intrinsic coagulation inhibition in young child, 470  
dengue viral antigens detected with counterimmunoelectrophoresis, 102  
Vitreous humor chemistry, in sudden infant death syndrome, 219  
Von Willebrand's disease, re-evaluation of plasma assays in, 26  
Vulva, verruciform xanthoma of, 224

## W

- Waldenström's macroglobulinemia, and immunoblastic sarcoma development, 121  
Wilson's disease, hepatic pathology in (abstract), 611

World Association of Societies of Pathology  
Commission on World Standards, 465  
proceedings of subcommittee on analytical goals in clinical  
chemistry, 624  
Wound infection, from *Vibrio alginolyticus*, 476

## X

Xanthoma, verruciform, of vulva, 224

## Y

*Yersinia*  
*enterocolitica*, antibiotic-resistance transfer in, 93  
*pseudotuberculosis*, enteric infection with, 631

**Photograph.** David J. LaFond, M.D., President, American Society  
of Clinical Pathologists, 1978-79, 239

**News and Notices**, 129, 238, 603, 733

**Errata**, 440

**Abstracts of Papers, Scientific Sessions of the Fall Program of the  
American Society of Clinical Pathologists, September 14-22,  
1978, St. Louis, Mo., 605**

**Philip Levine Award Lecture.** Genetic research in a blood bank  
laboratory, 1

**H. P. Smith Award Lecture.** Current concepts of platelet structure,  
363

**Statement. Statement from Quadrennial International Symposium  
on Measureable Properties (Quantities) and Units in Clinical  
Pathology and Clinical Chemistry, Gaithersburg, Md., August  
1976, 465**

## INDEX OF AUTHORS

- Abraham, Soman Ninan, 201  
 Abrams, Albert M., 614  
 Adler, Richard H., 210  
 Anderson, Marie G., 665  
 Anderson, Robert E., 615  
 Anselmo, Carl R., 177  
 Antoniadis, Kristina, 497  
 Antonioli, Donald A., 715  
 Apollon, Cora Jean, 578  
 Arimori, Shigeru, 158  
 Armstrong, Dawna, 724  
 Ashworth, Charles T., 257, 421  
 Ashworth, Robert D., 257, 421  
 Assmus, Sherry L., 22  
 Assor, Dieter, 356
- Baart de la Faille-Kuyper, Eva H., 51  
 Baba, Nobuhisa, 611  
 Bale, Patricia M., 411  
 Ballas, Samir K., 401  
 Banerjee, Tarit K., 345  
 Banks, Peter, 483  
 Banzhaf, Jane C., 286  
 Barclay, M. L., 610  
 Barnett, Roy, 624  
 Barry, Arthur L., 88  
 Bartlett, Raymond C., 194  
 Batjer, John D., 319  
 Baturay, Nesrine Z., 543  
 Bechtel, Jack, Jr., 93  
 Beck, David W., 470  
 Bechtel, Jack M., 291  
 Beeler, Myrton, 469  
 Belliveau, Robert R., 360  
 Beltaos, Efstathios, 345  
 Benjamin, Sanford P., 614  
 Benson, Ellis S., 615  
 Berard, Costan, 483  
 Bergnes, Manuel A., 615  
 Berman, L. D., 586  
 Berzofsky, Ronald N., 333  
 Bessler, Hanna, 246  
 Beurlet, Jacques, 130  
 Bhamarapravati, Natth, 102  
 Bibro, Mary Catherine, 112  
 Bigati, David J., 504  
 Bigham, Darlene A., 309  
 Bilak, Michael C., 362, 607  
 Black, William C., 142  
 Blackmon, John A., 43  
 Blair, Olga, 677  
 Blanc, William A., 219  
 Blumenfeld, Thomas A., 219  
 Bock, Matthew, 645  
 Bollum, F. J., 607  
 Boral, Leonard I., 578, 680  
 Bordin, Gerald M., 142  
 Boring, John R., III, 93  
 Boroviczeny, George, 465  
 Bostick, Warren L., 615
- Boyd, James C., 704  
 Brady, Edith F., 607  
 Brahmadathan, Kootallur Narayanan, 709  
 Brandt, John T., 360, 612  
 Branson, Herman E., 665  
 Brason, F. Wells, 210  
 Bratescu, A., 609  
 Breenberg, Nancy F., 452  
 Bridgens, James G., 615  
 Brimhall, Bernadine, 668  
 Britten, Thomas L., 543  
 Brosious, Effie M., 534  
 Brown, Arnold, 172  
 Brown, David C., 728  
 Brown, Stanley S., 624  
 Brubaker, Daniel B., 651  
 Burdick, Claude O., 357  
 Burke, Louis, 715  
 Burlina, Angelo, 624  
 Burns, Michael J., 476  
 Burridge, Jill, 521  
 Butler, J. J., 608  
 Bywaters, David, 615
- Callaway, Carey S., 43  
 Cameron, E. Cuthbert, 215  
 Cannon, Donald C., 609  
 Capostagno, V. J., 528  
 Carmichael, Grant P., Jr., 352  
 Carter, Anne C., 504  
 Cate, John C., IV, 606  
 Catherman, Robert L., 219  
 Chandler, Francis W., 43  
 Chan-Su, Sau-Yee Ann, 677  
 Chao, Eddie, 441  
 Chappell, R. L., 606  
 Charache, Samuel, 388  
 Chesney, Thomas McC., 612  
 Chiengsong, Rachanee, 102  
 Cho, Hyong Won, 75  
 Choi, Young J., 121  
 Churboonchart, Vina, 102  
 Clapp, W. L., 607  
 Cole, Roger M., 43  
 Colgan, Joseph P., 668  
 Collins, Mary Ann, 607  
 Compton, A., 610  
 Connor, Frankie, 695  
 Conrad, Steven A., 549  
 Cooper, David A., 473  
 Cooper, W. Lynn, 36  
 Copeland, Bradley E., 465, 564, 612, 624  
 Coppola, Antonio, 607  
 Cordonnier, Daniel, 404  
 Cornell, Terry A., 680  
 Cornere, B. M., 737  
 Counts, Richard B., 167  
 Cowan, William R., 615  
 Cozzutto, Cleto, 247
- Creegan, William J., 125  
 Crook, Lynn, 608
- Damus, Alfred J., 184  
 Danielides, Vassilios, 736  
 Dannemiller, Francis J., 680  
 Davis, Ronald, 613  
 Dean, Lucy, 564  
 DeLellis, Ronald A., 483  
 Demers, Laurence M., 444  
 Deodhar, Sharad D., 605  
 Despande, Vidya, 605  
 DiMauro, Jose, 713  
 Dito, William R., 301  
 Djaldetti, Meir, 146  
 Dodds, Anthony J., 473  
 Doder, Paolo, 247  
 Donahue, Valentina, 715  
 Dorazilová, Vlasta, 135  
 Dorsch, Carole A., 333  
 Dowd, Leslie A., 609  
 Drewinko, Benjamin, 263  
 Dubansky, A. Stephen, 22
- Eddie-Quartey, A. C., 604  
 Egler, Laszlo Joseph, 201  
 Eisses, John F., 605  
 Eldjarn, Lorentz, 612, 624  
 Elevitch, Franklin R., 624  
 Elias, Jules M., 109, 483, 489  
 Elin, Ronald J., 457  
 Ellis, Graham, 557  
 El-Maraghi, Nabil Rida Hassan, 631  
 Elswick, William, 606  
 Ende, Norman, 543  
 Erickson, John O., 36  
 Evatt, Bruce L., 570  
 Exner, Thomas, 521
- Fairbanks, Virgil F., 668  
 Fealey, Thomas E., 504  
 Fedorko, Joseph, 326  
 Feind, Carl R., 595  
 Felton, Charles P., 734  
 Fine, Gerald, 605  
 Fisher, Edwin R., 240  
 Fisher, Russell S., 615  
 Fishman, Pnina, 246  
 Fitchen, John H., 722  
 Fleer, Marie A., 613  
 Flynn, F. V., 624  
 Folland, Anita, 578  
 Fossieck, Byron, Jr., 326, 330  
 Fossum, Roger, 612  
 Fowler, Maralyn, 437  
 Freireich, Emil J., 263, 338  
 Frohlich, Jiri, 215  
 Fumarola, Donato, 604  
 Futrakul, Prasit, 102
- Gaetjens, Eric, 504  
 Gallivan, Monica, 125  
 Galluzzo, Theresa S., 17, 379  
 Garvin, A. Julian, 483  
 Gatti, R. A., 528  
 George, Ronald B., 549  
 Gere, James B., 309  
 Gerson, Benjamin, 564  
 Ghosh, Hemendra K., 356  
 Giblett, Eloise R., 1  
 Gilbert, Roger K., 624  
 Gilchrist, Gerald, 612  
 Glynn, Michael F. X., 397  
 Godolphin, William, 215  
 Gogate, Prema A., 605  
 Goldberg, David M., 557  
 Goldernberg, David, 483  
 Goldstein, Phillip, 72  
 Greendyke, Robert M., 286  
 Greene, Claire, 109  
 Grijm, Rob, 51  
 Grimley, Philip M., 441  
 Gross, Nicholas J., 604  
 Groulade, Joseph, 404  
 Guarino, Michele, 247  
 Guze, Lucien B., 428  
 Gyorkey, F., 606  
 Gyorkey, P., 606
- Haber, Meryl H., 40, 613  
 Hamilton, Stanley R., 388  
 Hamiter, T., 610  
 Hamlin, William B., 319  
 Hammar, Samuel P., 151  
 Hamoudi, Ayser C., 613  
 Hansen, Joanna L., 428  
 Hanson, Stephen M., 615  
 Harisdangkul, Valee, 102  
 Harkins, Melvin M., 58  
 Harms, Cathy S., 481, 612, 613  
 Harris, Eugene, 624  
 Hartmann, W. H., 614  
 Hartsock, Robert J., 83, 651  
 Hathaway, William E., 22  
 Hattersley, Paul G., 480  
 Hayashi, Takuji, 341  
 Hays, James E., 167  
 Hasler, Dana, 263  
 Healy, M. J. R., 624  
 Hedrick, Regina, 606  
 Heinze, Paul A., 177  
 Henderson, Ruth, 613  
 Henriksen, Ruth A., 470  
 Henry, John Bernard, 615  
 Herman, Doris, 142  
 Hester, Jeane, 263  
 Hicklin, Martin D., 43  
 Hikita, Takao, 358  
 Hill, Sherwood S., 578, 680  
 Hiraki, Shunkichi, 358  
 Hoffman, George C., 384

- Hoffman, Thomas A., 184  
Holloway, Marvin L., 125, 134  
Hum, Gilbert J., 10  
Humes, James J., 615  
Hutchins, Grover M., 640  
Hymas, Peter G., 26
- Isbister, James P., 473  
Ishak, Kamal G., 611
- Jaffe, Elaine, 483  
James, L. Patrick, 600, 607  
Janckila, Anthony J., 357  
Jensen, Hanne M., 609  
Jessop, Mollie, 388  
John, Isaac, 201  
Johnsen, Teresa A., 489  
Johnson, C. E., Jr., 528  
Johnston, Dennis, 263  
Juves, Mariam W., 83
- Kaczera, Zygmunt, 204  
Kaplow, Leonard S., 291  
Karselis, Terence C., 481  
Kass, Lawrence, 574  
Katayama, Isao, 482  
Kater, Louis, 51  
Katzenstein, Anna-Luise, 137  
Keneklis, T. P., 607  
Kennard, Kenneth C., 606  
Killander, John, 624  
Kim, Dong S., 504  
Kim, H., 483  
Kimura, Ikuro, 358  
Kirkish, L. S., 610  
Kisker, C. Thomas, 470  
Kjeldsberg, Carl R., 357  
Kjellstrand, Carl M., 728  
Klarkowski, Derryck, 473  
Kleinman, R., 609  
Kohan, Theodore S., 194  
Kopolovitch, Juri, 234  
Koshi, Grace, 709  
Kotwal, Nirmal, 240  
Kozin, Franklin, 437  
Krasnokuki, Daniel, 234  
Krauth, Gary H., 309  
Krieg, Arthur F., 738
- Lacson, Atilano, 586  
LaFond, David J., 239  
Lam, Kui Chun, 229  
Lambe, Dwight W., Jr., 97  
Lasner, Richard A., 88  
Lawande, Ravindra Venkatesh, 201  
Lee, Chang Ling, 672  
Lee, Min W., 605  
Lee, Shiong S., 133  
Lee, Stephen, 722  
Lefer, Lewis G., 349  
Lehrer, R., 528  
Leland, James, 31  
Leviatan, Avigdor, 234
- Levin, Robert D., 384  
Lewin, Klaus, 492  
Lewis, John W., 704  
Li, Chin Yang, 483  
Libnoch, Joseph A., 668  
Lindner, Luther E., 40, 613  
Lipana, Narcisa, 240  
Liss, Leopold, 611  
Liu, Frank, 610  
Liu, Paul I., 608  
Livolsi, Virginia A., 112, 595  
Lloyd-Still, John D., 444  
Lo, Rose, 17  
London, Robert, 72  
Lukes, Robert J., 509  
Lustgarten, Jack A., 72
- Mackay, B., 608  
MacPherson, Bruce, 31  
Maeda, Koichi, 608  
Maimon, Jonathan, 204  
Mair, Nicholas Saul, 631  
Maitra, Shyamal K., 428  
Maksem, John, 137  
Malasková, Vera, 135  
Mann, Risa, 483  
Mantell, Cary H., 219  
Martin, Michael V., 130  
Martin, Scott A., 224  
Mayer, E. P., 609  
Maynard, Joyce, 695  
McAfee, William M., 10  
McCann, D. S., 610  
McConnell, Thomas H., 257, 421  
McCormack, Lawrence J., 614  
McCormick, George M., 549  
McCutcheon, Sue A., 613  
McGavran, Malcolm H., 724  
McMillen, James J., 728  
Melrose, Raymond J., 614  
Meltzer, Herbert Y., 75  
Mengason, Anita P., 695  
Miller, Mary Ellen, 388  
Milstoc, M., 131  
Min, K-W., 606  
Miyoshi, Isao, 358  
Montgomery, Robert R., 22  
Montiel, M., 607  
Moorehead, W. R., 611  
Moura Nunes, Jose F., 479  
Moyer, Geoffrey H., 352  
Muck, Katie B., 492  
Murray, Patrick R., 704
- Naeim, Faramarz, 528  
Nakane, P., 483  
Nattero, Giovanni, 247  
Neiman, R. S., 586  
Ness, Paul M., 26  
Neuwirtová, Radana, 135  
Nielsen, Carl, 257, 421  
Nimmanitaya, Suchitra, 102  
Nisker, Jeffrey A., 253
- Nomoto, Yasuo, 158  
Nordstrand, Egon, 83  
Nosanchuk, Jerome S., 161, 481
- Oei, T. O., 610, 611  
Ogawa, Makio, 608  
Okita, Hajime, 645  
Okun, David B., 117  
Orlina, Armando R., 713  
Orsi, Ernest B., 543  
Osborne, B. M., 608  
Ota, Takamasa, 358
- Paegle, R. D., 610  
Page, D. L., 614  
Palekar, Alka A., 240  
Palutke, Margarita, 273  
Pang, Jan, 133  
Parker, Joseph C., Jr., 609  
Parra, J., 610  
Parker, Richard H., 330  
Pasquale, S. M., 607  
Patel, Hemant J., 695  
Pedersen, Joseph T., 685  
Perkins, Herbert A., 26  
Pertschuk, Louis P., 504  
Peterson, Kathryn G., 17, 379  
Peterson, Verlyn, 125, 600  
Petzel, Robert A., 728  
Pezzlo, Marie, 476  
Pirkle, Hubert, 665  
Polesky, Herbert F., 281  
Polissar, Lincoln, 319  
Pontius, Kathryn I., 614  
Porter, David D., 352, 492  
Power, Paul, 521  
Price, John D., 215
- Quall, Charles, 433  
Quattrochi, James J., 611
- Ramadei, William A., 433  
Ramzy, Ibrahim, 253  
Rasmussen, Brad, 582  
Rawnsley, Howard M., 624  
Reals, William J., 615  
Rebuck, John W., 608  
Reed, Janet L., 606  
Reiner, Leopold, 121  
Renversez, Jean C., 404  
Repine, John E., 582  
Reynoso, Gustavo, 610  
Rickard, Kevin A., 521  
Ricker, Roberta, 359  
Rinsler, M. G., 624  
Rivers, R. L., 611  
Roberts, Theophilus W., 734  
Robertson, Richard G., 190  
Rodriguez, Luis J., 609  
Rogers, L. W., 614  
Roggli, Victor L., 724  
Roper, Pamela, 263, 338  
Rosai, Juan, 483  
Rosen, Seymour, 715
- Rosenfield, Richard E., 204  
Rosier, R. Peter, 349  
Rosvoll, Randi V., 695  
Rudolph, A. H., 606  
Rutz, Cheryl, 194
- Sadowski, George E., 190  
Saeed, Sheikh M., 608  
Saier, Eleanor L., 83  
Sain, Anil, 540  
Sakai, Hideto, 158  
Salkie, M. L., 554  
Salvatore, James D., 481  
Sands, Linda, 184  
Sanford, Jaye, 257, 421  
Santa Cruz, Daniel J., 224  
Savage, Richard A., 608  
Savopoulos, Persa, 736  
Schanfield, Moses S., 281  
Schauble, Muriel K., 291, 607  
Schenken, Jerald R., 465  
Schmidt, Robert M., 534  
Schoentag, Robert A., 685  
Schotz, Michael C., 428  
Schumacher, Harold R., 125, 134, 362, 600, 607  
Schumann, G. Berry, 452, 606  
Schwartz, Peter E., 112  
Scott, Robert McNair, 102  
Sebek, Bruce A., 608  
Sebring, Elizabeth S., 281  
Seegal, Beatrice C., 734  
Senhauser, D. A., 360, 612  
Sham, Rajasekar, 540  
Sheibani, Khalil, 605, 608  
Sherwin, Russell P., 64  
Shier, Karl J., 614  
Shirey, Earl K., 384  
Shulman, Gerald, 738  
Sibley, Carol, 570  
Sibley, Richard K., 728  
Siefelbaum, Marvin, 72  
Silver, Lawrence, 540  
Silverman, Eugene M., 269  
Simon, Toby L., 613  
Singh, Amarjeet, 540  
Slater, Lewis M., 665  
Smith, Cindy, 613  
Smith, Keith, 609  
Smith, Lee, 695  
Soares, Jorge O., 479  
Spector, Harvey, 497  
Spielvogel, Arthur, 121  
Spooner, Richard J., 557  
Sproat, David, 172  
Staley, Nancy A., 728  
Stanford, William, 680  
Stass, Sanford A., 125, 134, 362, 600, 607  
Stemmerman, Grant N., 341  
Sternberger, Ludwig, 483  
Stoebner, Pierre, 404  
Stoecklein, S., 610  
Strauss, Ronald G., 470



Stromeyer, F. Wayne, 611  
 Stubbs, K. Gayle, 133  
 Suffin, Stephen C., 492  
 Sun, Nora C. J., 10, 117  
 Suzuki, Minoru, 724

Tabaczka, Pamela, 273  
 Taketa, Fumito, 668  
 Tanaka, Kouichi R., 117  
 Tanaka, Toshio, 358  
 Taylor, Clive R., 483, 509  
 Taylor, Malcolm, 606  
 Teodorescu, M., 609  
 Thangavelu, Chinnappan  
   Palaniappan, 709  
 Thrupp, Lauri D., 177  
 Tierno, P. M., 131  
 Trahern, Charles A., 309  
 Triplett, Douglas A., 481, 612,  
   613  
 Trumbull, Merlin L., 612

Tsai, Cheng C., 605  
 Ts'ao, Chung-Hsin, 17, 379  
 Tsubota, Teruhiko, 358  
 Tubbs, Raymond R., 384, 605,  
   608  
 Tulooch, Brian R., 609

Ullmann, A. S., 613  
 Unger, Phyllis, J., 713  
 Uribe, G., 606  
 Usategui, Magdalena, 610

Valenzuela, Rafael, 605  
 Valter, Peter J., 476  
 Van den Tweel, Jan G., 509  
 Vander Zwaag, R., 614  
 Varsa, Elizabeth W., 142  
 Vialtel, Paul, 404  
 Vladutiu, Adrian O., 210  
 Vogten, Arnoldus J. M., 51

Von Borovitz, Karl-Georg,  
   624

Walker, W. E., 614  
 Walsh, Thomas J., 640  
 Ward, A. Milford, 557  
 Warnke, Roger, 483  
 Waters, Catherine, 330  
 Weinberg, J. Brice, 151  
 Weiner, John M., 10  
 Wenk, Robert E., 72  
 Weshler, Zev, 234  
 Whang, R., 610  
 Whitby, L. Gordon, 624  
 White, George M., 333  
 White, James G., 363, 582  
 Whiteside, Theresa L., 651  
 Wicher, Konrad, 133  
 Williams, L. T., 614  
 Williams, Marjorie J., 615  
 Williamson, Lorna J., 319  
 Winer, Robert L., 36

Woda, Bruce A., 737  
 Woo, Jannie, 609  
 Wood, William G., 58  
 Woolfrey, Bert F., 433  
 Wormer, Judith L., 286  
 Wozniak, Kenneth J., 269  
 Wu, John C. L., 734  
 Wu, Pui Chee, 229  
 Wuerker, Raymond B., 36

Yang, James P. S., 482  
 Yapit, Martha K., 738  
 Yeh, George, 121  
 Yeip, Marcia, 605  
 Ying, Rosita L., 672  
 Yoshikawa, Thomas T., 428  
 Young, Jean C., 492  
 Yum, Moo Nahm, 737  
 Yung, Anthony, 133

Zahradnik, John M., 352  
 Zak, Solomon J., 668

11-2-63 11:11

# AMERICAN JOURNAL OF CLINICAL PATHOLOGY

OFFICIAL PUBLICATION OF AMERICAN SOCIETY OF CLINICAL PATHOLOGISTS

## BOARD OF EDITORS

JOHN G. BATSAKIS  
MYRTON F. BEELER  
RICHARD D. BRUNNING  
REX B. CONN, JR.  
BRADLEY E. COPELAND  
ANTHONY N. D'AGOSTINO  
SHARAD DEODHAR  
C. TERRENCE DOLAN  
J. ROGER EDSON  
FRANZ M. ENZINGER  
BLAISE E. FAVARA  
EDWIN R. FISHER  
MICHAEL B. GRAVANIS  
L. RUTH GUY  
MERYL H. HABER

ROBERT J. HARTSOCK  
CHARLES S. HIRSCH  
GEORGE C. HOFFMAN  
ELAINE S. JAFFE  
JOHN A. KOEPKE  
ARTHUR F. KRIEG  
CHANG LING LEE  
JESSE H. MARYMONT, JR.  
JOHN M. MATSEN  
ROBERT W. McDIVITT  
WILLIAM A. MEISSNER  
AZORIDES R. MORALES  
BYRON A. MYHRE  
ROBERT M. NAKAMURA  
ALAN B. NG

CHARLES A. OWEN, JR.  
DWIGHT K. OXLEY, III  
WALDEMAR A. PALUTKE  
GERALD M. PENN  
ALLEN L. PUSCH  
JOHN W. REBUCK  
JUAN ROSAI  
KENNETH J. RYAN  
JERALD R. SCHENKEN  
ROBERT M. SCHMIDT  
WILLIAM W. SHEEHAN  
F. WILLIAM SUNDERMAN, JR.  
JOHN A. WASHINGTON, II  
HARRY F. WEISBERG  
GEORGE D. WILNER

**FRANK VELLIOS—Editor-in-Chief**

Department of Pathology  
University of Oregon Health Sciences Center  
Portland, Oregon 97201

**PUBLISHED BY J. B. LIPPINCOTT COMPANY • PHILADELPHIA • TORONTO**

All change of address notices for the membership listing should be mailed to American Society of Clinical Pathologists, Attn. AJCP Circulation Dept., 2100 W. Harrison Street, Chicago, Ill. 60612. All other notices should be forwarded to J. B. Lippincott Company, Attn. Circulation Manager, East Washington Square, Philadelphia, Pa. 19105.

American Journal of Clinical Pathology (ISSN 0002-9173) is published monthly for \$35.00 per year for the United States and its possessions; all other countries \$44.00; by J. B. Lippincott Co., East Washington Square, Philadelphia, PA 19105. Second-class postage paid at Philadelphia, PA, and at additional mailing offices. POSTMASTER: Send address changes to American Journal of Clinical Pathology, J. B. Lippincott Co., East Washington Square, Philadelphia, PA. Single copies \$5.00. Copyright © 1979 by the American Society of Clinical Pathologists. Printed in U. S. A. Single copies of all material subject to this copyright may be photocopied for the non-commercial purpose of scientific or educational advancement.



# TABLE OF CONTENTS

JANUARY TO JUNE, 1979

Number 1, January 1979

Philip Levine Award Lecture: Genetic Research in a Blood Bank Laboratory. ELOISE R. GIBLETT .....	1
Hemostatic Abnormalities in Malignancy, a Prospective Study of One Hundred Eight Patients. Part I. Coagulation Studies. NORA C. J. SUN, WILLIAM M. MCAFEE, GILBERT J. HUM, AND JOHN M. WEINER .....	10
Whole-blood Clotting Time, Activated Partial Thromboplastin Time, and Whole-blood Recalcification Time as Heparin Monitoring Tests. CH'UNG-HSIN TS'AO, THERESA S. GALLUZZO, ROSE LO, AND KATHRYN G. PETERSON ....	17
Activated Partial Thromboplastin Time and Minor Coagulopathies. WILLIAM E. HATHAWAY, SHERRY L. ASSMUS, ROBERT R. MONTGOMERY, AND A. STEPHEN DUBANSKY .....	22
Re-evaluation of Plasma from Patients Previously Diagnosed as Having von Willebrand's Disease with the Factor VIII-related Antigen and Ristocetin Cofactor Assays. PAUL M. NESS, PETER G. HYMAS, AND HERBERT A. PERKINS .....	26
Hematologic Findings in Cases of Mammary Cancer Metastatic to Bone Marrow. JAMES LELAND AND BRUCE MACPHERSON .....	31
Ultrastructural Examination of Urinary Sediment. Value in Renal Amyloidosis. ROBERT L. WINER, RAYMOND B. WUERKER, JOHN O. ERICKSON, AND W. LYNN COOPER .....	36
Unsuitability of Electron Microscopic Examination of Urinary Sediment for the Diagnosis of Amyloidosis. Universal Presence of Fibrillar Proteins in Urine Containing Casts. LUTHER E. LINDNER AND MERYL H. HABER .....	40
Ultrastructure of the Agent of Legionnaires' Disease in the Human Lung. FRANCIS W. CHANDLER, JOHN A. BLACKMON, MARTIN D. HICKLIN, ROGER M. COLE, AND CAREY S. CALLAWAY .....	43
Alcoholic Hepatic Disease: Specificity of IgA Deposits in Liver. LOUIS KATER, ADRIAAN C. JÖBSIS, EVA H. BAART DE LA FAILLE-KUYPER, ARNOLDUS J. M. VOGTEN, AND ROB GRUIM .....	51
Nephropathy in Angioimmunoblastic Lymphadenopathy. WILLIAM G. WOOD AND MELVIN M. HARKINS .....	58
Juxtanuclear Lymphocytes in Histocultures of Mammary Cancer. RUSSELL P. SHERWIN .....	64
A Prospective Evaluation of Placental Lactogen as a Test for Neonatal Risk. ROBERT E. WENK, ROBERT LONDON, MARVIN SIEGELBAUM, JACK A. LUSTGARTEN, AND PHILLIP GOLDSTEIN .....	72
Factors Affecting Stability of Isozymes of Creatine Phosphokinase. HYONG WON CHO AND HERBERT Y. MELTZER ....	75
The Ratio of Free to Esterified Cholesterol in Serum. A New Discriminant in Correlating Lipid Metabolism with Disease State. ELEANOR L. SAIER, EGON NORDSTRAND, MARIAM W. JUVES, AND ROBERT J. HARTSOCK .....	83
<i>In Vitro</i> Methods for Determining Minimal Lethal Concentrations of Antimicrobial Agents. ARTHUR L. BARRY AND RICHARD A. LASNER .....	88
Antibiotic-resistance Transfer in <i>Yersinia enterocolitica</i> . JACK BECHTEL, JR., AND JOHN R. BORING III. ....	93
Characterization of a Polyvalent Conjugate of <i>Bacteriodes fragilis</i> by Fluorescent Antibody Staining. DWIGHT W. LAMBE, JR. ....	97
Rapid Detection of Dengue Viral Antigens by Counterimmunoelectrophoresis. VINA CHURDBOONCHART, NATTH BHAMARAPRAYATI, VALEE HARISDANGKUL, ROBERT MCNAIR SCOTT, PRASIT FUTRAKUL, RACHANEE CHIENGSONG, AND SUCHITRA NIMMANITAYA .....	102
Laboratory Suggestions:	
Modified Steiner Method for the Demonstration of Spirochetes in Tissue. JULES M. ELIAS AND CLAIRE GREENE .....	109
Case Reports:	
Adenosarcoma of the Uterus. Ultrastructural Observations. MARY CATHERINE BIBRO, VIRGINIA A. LIVOLSI, AND PETER E. SCHWARTZ .....	112
Bone Marrow Granulomas in Q Fever. DAVID B. OKUN, NORA C. J. SUN, AND KOUICHI R. TANAKA .....	117
Immunoblastic Sarcoma Following Waldenström's Macroglobulinemia. YOUNG J. CHOI, GEORGE YEH, LEOPOLD REINER, AND ARTHUR SPIELVOGEL .....	121
Cytoplasmic Fragments Causing Spurious Platelet Counts in the Leukemic Phase of Poorly Differentiated Lymphocytic Lymphoma. SANFORD A. STASS, MARVIN L. HOLLOWAY, VERLYN PETERSON, WILLIAM J. CREEGAN, MONICA GALLIVAN, AND HAROLD R. SCHUMACHER .....	125
News and Notices .....	129

## TABLE OF CONTENTS

A.J.C.P. • June 1979

## Letters to the Editor:

Myospherulosis. JACQUES BEURLET .....	130
Germ-tube-positive <i>Candida tropicalis</i> . MICHAEL V. MARTIN .....	130
Further Evaluation of a Germ-tube-positive <i>Candida tropicalis</i> . PHILIP M. TIerno AND MAYER MILSTOC .....	131
An Automated Antimicrobial Susceptibility System versus the Kirby-Bauer Disk Diffusion Test for Antimicrobial Susceptibility. SHIONG S. LEE, JAN PANG, AND ANTHONY YUNG .....	131
The Authors' Reply. KONRAD WICHER AND K. GAYLE STUBBS .....	133
Positive Tartrate-resistant Acid Phosphatase Staining in Morphologically Normal Peripheral-blood Lymphocytes. J. W. SHARP, M. L. HOLLOWAY, H. R. SCHUMACHER, AND S. A. STASS .....	133
Interaction of Colloidal Iron and Hairy Cells. RADANA NEUWIRTOVA, VLASTA DORAZILOVA, AND VERA MALASKOVA .....	134

## Number 2, February 1979

Candidal Infection of Gastric Ulcers. Histology, Incidence, and Clinical Significance. ANNA-LUISE A. KATZENSTEIN AND JOHN MAKSEM .....	137
Histologic Comparison of Mammary Carcinomas among a Population of Southwestern American Indian, Spanish American, and Anglo Women. WILLIAM C. BLACK, GERALD M. BORDIN, ELIZABETH W. VARSA, AND DORIS HERMAN .....	142
The Surface Ultrastructure of Gaucher Cells. MEIR DJALDETTI, PNINA FISHMAN, AND HANNA BESSLER .....	146
Blast Cell Leukemia with IgM Monoclonal Gammopathy and Intracytoplasmic Vacuoles and Auer Body-like Inclusions. J. BRICE WEINBERG AND SAMUEL P. HAMMAR .....	151
Increase of IgA-bearing Lymphocytes in Peripheral Blood from Patients with IgA Nephropathy. YASUO NOMOTO, HIDEOTO SAKAI, AND SHIGERU ARIMORI .....	158
The Effect of Smudge Cells on Leukocyte Counting—Are Chamber Counts Necessary? JEROME S. NOSANCHUK .....	161
A Computer Program for Analysis of Clotting Factor Assays and Other Parallel-line Bioassays. RICHARD B. COUNTS AND JAMES E. HAYS .....	167
Bacteriocin Typing of <i>Serratia marcescens</i> . A Simplified System. DAVID SPROAT AND ARNOLD BROWN .....	172
A Rapid (4–6-hour) Urine-culture System for Direct Identification and Direct Antimicrobial Susceptibility Testing. PAUL A. HEINZE, LAURI D. THRUPP, AND CARL R. ANSELMO .....	177
Evaluation of a Gonococcal Serologic Test. THOMAS A. HOFFMAN, ALFRED J. DAMUS, AND LINDA SANDS .....	184
Radiometric Detection of Haemophilus in Simulated Blood Cultures. GEORGE E. SADOWSKI AND RICHARD G. ROBERTSON .....	190
Comparative Costs of Microbial Identification Employing Conventional and Prepackaged Commercial Systems. RAYMOND C. BARTLETT, THEODORE S. KOHAN, AND CHERYL RUTZ .....	194
Recovery of Soil Amebas in the Nasal Passages of Children during the Dusty Hamartan Period in Zaria. RAVINDRA VENKATESH LAWANDE, SOMAN NINAN ABRAHAM, ISAAC JOHN, AND LASZLO JOSEPH EGLER .....	201
Nonuniform Distribution of Occult Blood in Feces. RICHARD E. ROSENFIELD, SHAUL KOCHWA, ZYGMUNT KACZERA, AND JONATHAN MAIMON .....	204
Diagnostic Value of Biochemical Analysis of Pleural Effusions. Carcinoembryonic Antigen and Beta <sub>2</sub> Microglobulin. ADRIAN O. VLADUTIU, RICHARD H. ADLER, AND F. WELLS BRASON .....	210
Spurious Hypocalcemia in Hemodialysis Patient after Heparinization. <i>In-vitro</i> Formation of Calcium Soaps. WILLIAM GODOLPHIN, E. CUTHBERT CAMERON, JIRI FROHLICH, AND JOHN D. E. PRICE .....	215
Postmortem Vitreous Humor Chemistry in Sudden Infant Death Syndrome and in Other Causes of Death in Childhood. THOMAS A. BLUMENFELD, CARY H. MANTELL, ROBERT L. CATHERMAN, AND WILLIAM A. BLANC .....	219
Case Reports:	
Verruciform Xanthoma of the Vulva. Report of Two Cases. DANIEL J. SANTA CRUZ AND SCOTT A. MARTIN .....	224
Cytoplasmic Hepatitis B Surface Antigen and the Ground-glass Appearance in Hepatocellular Carcinoma. PUI CHEE WU AND KUI CHUN LAM .....	229
Primary Kaposi's Sarcoma in Lymph Nodes Concurrent with Chronic Lymphatic Leukemia. ZEV WESHLER, AVIGDOR LEVIATAN, DANIEL KRASNOKUKI, AND JURI KOPOLOVITCH .....	234
News and Notices .....	238

## TABLE OF CONTENTS

Number 3, March 1979

Photograph. David J. LaFond, M.D., President, American Society of Clinical Pathologists, 1978-79 .....	239
A Nonencapsulated Sclerosing Lesion of the Breast. EDWIN R. FISHER, ALKA S. PALEKAR, NIRMAL KOTWAL, AND NARCISA LIPANA .....	240
Intravascular Endothelial Proliferations in Children. CLETO COZZUTTO, MICHELE GUARINO, PAOLO DODERO, AND GIOVANNI NATTERO .....	247
Histologic Study of Ovaries from Young Women with Endometrial Adenocarcinoma. IBRAHIM RAMZY AND JEFFREY A. NISKER .....	253
A Computerized Word-processing and Data System for Histology in a Private Medical Laboratory. CHARLES T. ASHWORTH, THOMAS H. MCCONNELL, CARL NIELSEN, ROBERT D. ASHWORTH, AND JAYE SANFORD .....	257
Effects of Time, Platelet Concentration, and Sex on the Human Platelet Aggregation Response. PAMELA ROPER, BENJAMIN DREWINKO, DANA HASLER, DENNIS JOHNSTON, JEANE HESTER, AND EMIL J. FREIREICH .....	263
Granulocytic Adherence in Chronic Alcoholism. KENNETH J. WOZNIAK AND EUGENE M. SILVERMAN .....	269
Functional Studies of Hairy Cell Leukemia (Leukemic Reticuloendotheliosis). MARGARITA PALUTKE AND PAMELA TABACZKA .....	273
Gm and Km Allotypes in Disputed Parentage. ELIZABETH S. SEBRING, HERBERT F. POLESKY, AND MOSES S. SCHANFIELD .....	281
Quality Assurance in the Blood Bank. Studies of Technologist Performance. ROBERT M. GREENDYKE, JUDITH L. WORMER, AND JANE C. BANZHAF .....	286
Validity of Hematologic Data in Veterans Administration Hospital Laboratories. A Veterans Administration Cooperative Study. LEONARD S. KAPLOW, MURIEL K. SCHAUBLE, AND JACK M. BECKTEL .....	291
Rapid Immunonephelometric Quantitation of Eleven Serum Proteins by Centrifugal Fast Analyzer. WILLIAM R. DITO .....	301
A Radioimmunoassay for the Measurement of Human Cardiac Myosin Light Chains. JAMES B. GERE, GARY H. KRAUTH, CHARLES A. TRAHERN, AND DARLENE A. BIGHAM .....	309
Effects of Bacterial Contamination of Reagent Water on Selected Laboratory Tests. JOHN D. BATJER, LORNA J. WILLIAMSON, LINCOLN POLISSAR, AND WILLIAM B. HAMLIN .....	319
Counterimmunoelectrophoresis of Blood Cultures. Temporal Relationship of Positive Gram Stain to Positive Counterimmunoelectrophoresis. BYRON FOSSIECK, JR., AND JOSEPH FEDORKO .....	326
Counterimmunoelectrophoresis for Rapid Identification of Blood-culture Isolates. CATHERINE WATERS, BYRON FOSSIECK, JR., AND RICHARD H. PARKER .....	330
The Measurement of Antibodies to Extractable Nuclear Antigen. CAROLE A. DORSCH, GEORGE M. WHITE, AND RONALD N. BERZOFKY .....	333
Laboratory Suggestions:	
The Platelet Function Profile. A New Format for Recording Platelet Function Tests. PAMELA ROPER AND EMIL J. FREIREICH .....	338
Case Reports:	
Hyperplastic Polyps of the Gastric Mucosa Adjacent to Gastroenterostomy Stomas. GRANT N. STEMERMANN AND TAKUJI HAYASHI .....	341
Chondrosarcoma of the Breast. Report of Two Cases. EFSTATHIOS BELTAOS AND TARIT K. BANERJEE .....	345
Ochronosis in the Breast. LEWIS G. LEFER AND R. PETER ROSIER .....	349
Adenovirus Hepatitis in an Immunosuppressed Adult Patient. GRANT P. CARMICHAEL, JR., JOHN M. ZAHRADNIK, GEOFFREY H. MOYER, AND DAVID D. PORTER .....	352
Letters to the Editor:	
Odds Statistics. HEMENDRA K. GHOSH .....	356
Multiple Apocrine Fibroadenomas of the Anal Skin. DIETER ASSOR .....	356
Cytochemistry of Tartrate-resistant Acid Phosphatase. ANTHONY J. JANCKILA AND LUNG T. YAM .....	356
Chronic Myelomonocytic Leukemia. CARL R. KJELDSBERG .....	357
Dr. Burdick's Reply. CLAUDE O. BURDICK .....	357
Hairy Cell Leukemia—Transplantation into Hamsters and Production of Tumors. ISAO MIYOSHI, SHUNKICHI HIRAKI, TAKAO HIKITA, TAKAMASA OTA, TERUHIKO TSUBOTA, TOSHIO TANAKA, AND IKURO KIMURA .....	358
Enumeration of Platelets. ROBERTA RICKER .....	359

# TABLE OF CONTENTS

A.J.C.P. • June 1979

Dr. Belliveau's Reply. ROBERT R. BELLIVEAU .....	359
Effect of Oral Contraceptives on Antithrombin III Measurement. JOHN T. BRANDT AND D. A. SENHAUSER .....	360
Tartrate-resistant Acid Phosphatase-positive Gaucher Cells. CAROLYN M. WOODRUFF, HAROLD R. SCHUMACHER, MICHAEL C. BILAK, AND SANFORD A. STASS .....	361
 Number 4, April 1979	
The H. P. Smith Award Lecture: Current Concepts of Platelet Structure. JAMES G. WHITE .....	363
Opposite Changes in Aggregability of Platelets Stored in Plasma and in Blood. CHUNG-HSIN TS'AO, KATHRYN G. PETERSON, AND THERESA S. GALLUZZO .....	379
Fibrinolysis in Familial Pulmonary Hypertension. RAYMOND R. TUBBS, ROBERT D. LEVIN, EARL K. SHIREY, AND GEORGE C. HOFFMAN .....	384
Comparison of Microchromatography and Electrophoresis with Elution for Hemoglobin A <sub>2</sub> (Hb A <sub>2</sub> ) Quantitation. STANLEY R. HAMILTON, MARY ELLEN MILLER, MOLLIE JESSOP, AND SAMUEL CHARACHE .....	388
Heparin Monitoring and Thrombosis. MICHAEL F. X. GLYNN .....	397
Normal Serum Iron and Elevated Total Iron-binding Capacity in Iron-deficiency States. SAMIR K. BALLAS .....	401
Ultrastructural Study of Human IgG and IgG-IgM Crystallcryoglobulins. PIERRE STOEGBNER, JEAN C. RENVERSEZ, JOSEPH GROULADE, PAUL VIALTEL, AND DANIEL CORDONNIER .....	404
Congenital Cystic Malformation of the Lung. A Form of Congenital Bronchiolar ("Adenomatoid") Malformation. PATRICIA M. BALE .....	411
A Computer System for Cytology in a Private Laboratory Using a PDP 8/E Minicomputer. C. T. ASHWORTH, T. H. MCCONNELL, R. D. ASHWORTH, C. R. NIELSEN, AND JAYE SANFORD .....	421
Quantitation of Serum Tobramycin Concentration Using High-pressure Liquid Chromatography. SHYAMAL K. MAITRA, THOMAS T. YOSHIKAWA, JOANNA L. HANSEN, MICHAEL C. SCHOTZ, AND LUCIEN B. GUZE .....	428
Petri Dish Concavity—A Potential Source of Error in Antibiotic Assay and Agar Diffusion Antibiotic Susceptibility Tests. BERT F. WOOLFREY, WILLIAM A. RAMADEI, AND CHARLES QUALL .....	433
Identification of Specific Antibodies to Extractable Nuclear Antigens by Passive Immunodiffusion. FRANKLIN KOZIN AND MARALYN FOWLER .....	437
Simple Modification of the Cellulose Acetate Method for Identifying Adult Hemoglobin (Hemoglobin A) in Dried Specimens of Newborn Blood. EDDIE CHAO AND PHILIP M. GRIMLEY .....	441
Serum Glycine-conjugated Bile Acids in Pediatric Hepatobiliary Disorders. JOHN D. LLOYD-STILL AND LAURENCE M. DEMERS .....	444
Usefulness of Macroscopic Urinalysis as a Screening Procedure. A Preliminary Report. G. BERRY SCHUMANN AND NANCY F. GREENBERG .....	452
A Program for Residency Training in Clinical Pathology. RONALD J. ELIN .....	457
Statement	
Statement from Quadrennial International Symposium on Measurable Properties (Quantities) and Units in Clinical Pathology and Clinical Chemistry, Gaithersburg, Maryland, U. S. A.—August 5 and 6, 1976 .....	465
Editorial	
Measurable Properties (Quantities) and Units in Clinical Medicine. MYRTON BEELER .....	469
Case Reports:	
An Intrinsic Coagulation Pathway Inhibitor in a 3-year-old Child. DAVID W. BECK, RONALD G. STRAUSS, C. THOMAS KISKER, AND RUTH A. HENRIKSEN .....	470
<i>In-vitro</i> Synthesis of an Anti-BI Cold Agglutinin Complicating a Case of Lymphoma. ANTHONY J. DODDS, DERRYCK KLARKOWSKI, DAVID A. COOPER, AND JAMES P. ISBISTER .....	473
Wound Infection Associated with <i>Vibrio alginolyticus</i> . MARIE PEZZLO, PETER J. VALTER, AND MICHAEL J. BURNS ....	476
Letters to the Editor:	
Intramitochondrial Paracrystalline Inclusions in Human Hepatocytes. JORGE O. SOARES AND JOSE F. MOURA NUNES .....	479
Heparin and the Activated Partial Thromboplastin Time. PAUL G. HATTERSLEY .....	480
The Authors' Reply. DOUGLAS A. TRIPLETT, CATHY S. HARMS, AND JOHN KOEPKE .....	480
Ion-selective Electrode. TERENCE C. KARSELIS .....	481



Implementation of a Pneumatic-tube System for Transport of Blood Specimens. JEROME S. NOSANCHUK AND JAMES D. SALVATORE .....	481
Tartrate-resistant Acid Phosphatase Reactions Not Specific for Hairy Cell Leukemia. ISAO KATAYAMA AND JAMES P. S. YANG .....	482
Errata .....	440

## Number 5, May 1979

Immunoperoxidase Technics in Diagnostic Pathology. Report of a Workshop Sponsored by the National Cancer Institute. RONALD A. DELELLIS, LUDWIG A. STERNBERGER, RISA B. MANN, PETER M. BANKS, AND PAUL K. NAKANE .....	483
The Utilization of Radioimmunoassay Antibodies for the Immunohistologic Staining of Polypeptide Hormones on Paraffin-embedded Tissue. JULES M. ELIAS AND TERESA A. JOHNSON .....	489
Improvement of the Glucose Oxidase Immunoenzyme Technic. Use of a Tetrazolium Whose Formazan is Stable without Heavy Metal Chelation. STEPHEN C. SUFFIN, KATIE B. MUCK, JEAN C. YOUNG, KLAUS LEWIN, AND DAVID D. PORTER .....	492
Correlation of Estrogen Receptor Levels with Histology and Cytomorphology in Human Mammary Cancer. KRISTINA ANTONIADES AND HARVEY SPECTOR .....	497
An Improved Histochemical Method for Detection of Estrogen Receptors in Mammary Cancer. Comparison with Biochemical Assay. LOUIS P. PERTSCHUK, ERIC GAETJENS, ANNE C. CARTER, DAVID J. BRIGATI, DONG S. KIM, AND THOMAS E. FEALEY .....	504
Pathophysiology of Lymphocyte Transformation. A Study of So-called Composite Lymphomas. JAN G. VAN DEN TWEEL, ROBERT J. LUKES, AND CLIVE R. TAYLOR .....	509
An Evaluation of Currently Available Methods for Plasma Fibrinogen. THOMAS EXNER, JILL BURRIDGE, PAUL POWER, AND KEVIN A. RICKARD .....	521
Sézary Syndrome. Tartrate-resistant Acid Phosphatase in the Neoplastic Cells. FARAMARZ NAEIM, V. J. CAPOSTAGNO, C. E. JOHNSON, JR., R. LEHRER, AND R. A. GATTI .....	528
Quantitation of Hemoglobin A <sub>2</sub> . An Interlaboratory Study. ROBERT M. SCHMIDT AND EFFIE M. BROSIUS .....	534
Erroneous Thyroid-stimulating Hormone Radioimmunoassay Results Due to Interfering Antibovine Thyroid-stimulating Hormone Antibodies. ANIL SAIN, RAJASEKAR SHAM, AMARJEET SINGH, AND LAWRENCE SILVER .....	540
Properties of a Cytotoxic Kidney Antibody Associated with Human Renal Transplantation. NORMAN ENDE, ERNEST V. ORSI, NESRINE Z. BATURAY, AND THOMAS L. BRITTEN .....	543
Alpha <sub>1</sub> -antitrypsin Quantitation and P <sub>1</sub> Typing of Stored Postmortem Blood. STEVEN A. CONRAD, GEORGE M. MCCORMICK, AND RONALD B. GEORGE .....	549
An Investigation into the Distribution of Radial Immunodiffusion Quality Control Data. M. L. SALKIE .....	554
Biochemical Features of Intrahepatic Cholestasis. DAVID M. GOLDBERG, RICHARD J. SPOONER, GRAHAM ELLIS, AND A. MILFORD WARD .....	557
High-density Lipoprotein Cholesterol. Significant Bias Between Methods. BENJAMIN GERSON, LUCY DEAN, AND BRADLEY E. COPELAND .....	564
Laboratory Suggestions:	
Improving the Sensitivity of the Fletcher Factor Assay. CAROL SIBLEY AND BRUCE L. EVATT .....	570
Cytochemical Identification of Tetrahydrofolate in Human Leukocytes. LAWRENCE KASS .....	574
The Type and Antibody Screen, Revisited. LEONARD L. BORAL, SHERWOOD S. HILL, CORA JEAN APOLLON, AND ANITA FOLLAND .....	578
An Improved Nitroblue Tetrazolium Test Using Phorbol Myristate Acetate-coated Coverslips. JOHN E. REPINE, BRAD RASMUSSEN, AND JAMES G. WHITE .....	582
Case Reports:	
Peliosis of the Spleen. ATILANO LACSON, LEONARD D. BERMAN, AND RICHARD S. NEIMAN .....	586
A Case of Primary Amebic Meningoencephalitis in Zaria, Nigeria. RAVINDRA V. LAWANDE, ISAAC JOHN, RICHARD H. DOBBS, AND LASZLO J. EGLER .....	591
Incidental Medullary Thyroid Carcinoma in Sporadic Hyperparathyroidism. An Expansion of the Concept of C-cell Hyperplasia. VIRGINIA A. LIVOLSI AND CARL R. FEIND .....	595
Abnormalities of Bone Marrow Simulating Histiocytic Medullary Reticulosis in a Patient with Gastric Carcinoma. L. PATRICK JAMES, SANFORD A. STASS, VERLYN PETERSON, AND HAROLD R. SCHUMACHER .....	600

## TABLE OF CONTENTS

A.J.C.P. • June 1979

News and Notices .....	603
Letters to the Editor:	
Phytohemagglutinin Activation of Lymphocytes—Quantitative Comparison of Different Preparations. DONATO FUMAROLA .....	604
The Authors' Reply. NICHOLAS J. GROSS AND A. C. EDDIE-QUARTEY .....	604
Abstracts of Papers, Scientific Sessions of the Fall Program of the American Society of Clinical Pathologists, September 14–22, 1978, St. Louis, Missouri .....	605

## Number 6, June 1979

Report of the ASCP/CAP/APC Joint Task Force on Pathology Manpower. ASCP/CAP/APC JOINT TASK FORCE ON PATHOLOGY MANPOWER .....	615
Analytical Goals in Clinical Chemistry: Their Relationship to Medical Care. Proceedings of the Subcommittee on Analytical Goals in Clinical Chemistry, World Association of Societies of Pathology, Ciba Foundation, London, England (U. K.), April 25–28, 1978. SUBCOMMITTEE ON ANALYTICAL GOALS IN CLINICAL CHEMISTRY .....	624
The Histopathology of Enteric Infection with <i>Yersinia pseudotuberculosis</i> . NABIL R. H. EL-MARAGHI AND NICHOLAS S. MAIR .....	631
Aspergillus Mural Endocarditis. THOMAS J. WALSH AND GROVER M. HUTCHINS .....	640
Osteomalacic New Bone Formation during Chemotherapy of Acute Granulocytic Leukemia. HAJIME OKITA AND MATTHEW BLOCK .....	645
Correlations of Immunologic Markers with Histologic Features of Human Non-Hodgkin's Lymphomas. DANIEL B. BRUBAKER, THERESA L. WHITESIDE, AND ROBERT J. HARTSOCK .....	651
Prothrombin Time after Heparin Removal. Application to Monitoring Simultaneous Anticoagulation with Heparin and Coumarins. HERMAN E. BRANSON, LEWIS M. SLATER, MARIE G. ANDERSON, AND HUBERT PIRKLE .....	665
Comparison of Hemoglobins Wood ( $\alpha_2\beta_2^{97\text{ leu}}$ ) and Malmö ( $\alpha_2\beta_2^{97\text{ ala}}$ ). Diagnostic Value of Citrate Agar Electrophoresis. JOSEPH P. COLGAN, VIRGIL F. FAIRBANKS, JOSEPH A. LIBNOCH, FUMITO TAKETA, BERNADINE BRIMHALL, AND SOLOMON J. ZAK .....	668
Phenotyping of Eight Erythrocytic Enzymes in One Acrylamide Gel. CHANG LING LEE AND ROSITA L. YING .....	672
ABO Hemolytic Disease of the Newborn. SAU-YEE ANN CHAN-SHU AND OLGA BLAIR .....	677
A Guideline for Anticipated Blood Usage during Elective Surgical Procedures. LEONARD I. BORAL, FRANCIS J. DANNEMILLER, WILLIAM STANFORD, SHERWOOD S. HILL, AND TERRY A. CORNELL .....	680
Evaluation of an Automated Blood Smear Analyzer. ROBERT A. SCHOENTAG AND JOSEPH T. PEDERSEN .....	685
Visual and Automated Differential Leukocyte Counts. A Comparison Study of Three Instruments. RANDI V. ROSVOLL, ANITA P. MENGASON, LEE SMITH, HEMANT J. PATEL, JOYCE MAYNARD, AND FRANKIE CONNOR .....	695
Theoretic and Experimental Analysis of the Ability of a Commercially Prepared System to Detect Mixtures of Bacteria. PATRICK R. MURRAY, JAMES C. BOYD, AND JOHN W. LEWIS .....	704
The Reliability and Rapidity of Coagglutination Technic and Its Comparison with Precipitin Technics in the Grouping of Streptococci. GRACE KOSHI, CHINNAPPAN PALANIAPPAN THANGAVELU, AND KOOTALLUR NARAYANAN BRAHMADATHAN .....	709
Case Reports:	
Hemolytic Disease of the Newborn Due to Anti-Di <sup>b</sup> . ARMANDO R. ORLIN, JOSE DIMAURO, AND PHYLLIS J. UNGER .....	713
Glandular Dysplasia in Diethylstilbestrol-associated Vaginal Adenosis. A Case Report and Review of the Literature. DONALD A. ANTONIOLI, SEYMOUR ROSEN, LOUIS BURKE, AND VALENTINA DONAHUE .....	715
Phagocytic Myeloma Cells. JOHN H. FITCHEN AND STEPHEN LEE .....	722
Pituitary Microadenoma and Primary Lymphoma of Brain Associated with Hypothalamic Invasion. VICTOR L. ROGGLI, MINORU SUZUKI, DAWNA ARMSTRONG, AND MALCOLM H. MCGAVRAN .....	724
Crescentic Glomerulonephritis and Renal Failure Associated with Malignant Lymphoma. ROBERT A. PETZEL, DAVID C. BROWN, NANCY A. STALEY, JAMES J. McMILLEN, RICHARD K. SIBLEY, AND CARL M. KJELLSTRAND .....	728
News and Notices .....	733
Letters to the Editor:	
Experience with a Modified Leukocyte Migration Inhibition Test in Sarcoidosis. THEOPHILUS W. ROBERTS, JOHN C. L. WU, CHARLES P. FELTON, PREM CHAUHAN, AND BEATRICE C. SEEGAL .....	734
Meningitis due to <i>Neisseria meningitidis</i> , Group Y. PERSA SAVOPOULOS AND VASSILIOS DANIELIDES .....	736
Staphylococcus aureus Antigen in Glomeruli. BRUCE A. WODA .....	737
The Author's Reply. MOO NAHM YUM .....	737
Torulopsis glabrata Endocarditis. B. M. CORNERE .....	737
Experience with a Blood-cell Scanner. GERALD SHULMAN, ARTHUR F. KRIEG, AND MARTHA K. YAPIT .....	737
Index to Volume 71 .....	739

## INDEX OF SUBJECTS

### Original Articles

#### A

- N-Acetylprocainamide, interlaboratory variation for assays in plasma, 306
- Acid phosphatase
  - leukocyte, detection of (letters), 886
  - prostate-specific, 944
  - reaction in chronic T-cell disorders, 739
- Actin, in platelet external membrane (abstract), 649
- Actinomyces odontolyticus*, and pulmonary abscess in immunosuppressed patient, 637
- Adrenal cortical tumors, prognostic factors in, 390
- Aerobes, recovery from wounds, transport systems for, 968
- Agar diffusion test
  - for pseudomonad susceptibility to gentamicin, 861
  - quality control in, 365
- Agar-dilution susceptibility tests, for cephalosporin activity, 858
- Agarose, neutrophil migration under, 956
- Agglutinins, and pseudothrombocytopenia, 1005
- Alanine aminotransferase, activity measured by 450 laboratories, 285
- Albumin, stability of mean values in quality control serum, 274
- Algorithms
  - and interpretive reporting of laboratory tests, 32
  - and quality control in hematology, 427
  - for recognition of cell classes, 52
- Alkaline phosphatase
  - activity measured by 450 laboratories, 285
  - leukocyte, in chronic neutrophilic leukemia, 233
- Alport's syndrome, with macrothrombopathic thrombocytopenia, 111
- American Society of Clinical Pathologists
  - Basic Science Research Symposium, 655
  - minutes of business meeting, 495
- Aminoglycosides
  - pseudomonad susceptibility to, 861
  - and resistance of small-colony forms of enteric bacteria, 79
- Amphotericin B, yeast susceptibility to, assay for, 194
- Ampicillin, synergism with gentamicin in *Listeria monocytogenes* infections, 974
- Amylase, urinary, and interlaboratory comparison quality control program, 299
- Anaerobes
  - blood culture media for, evaluation of, 199
  - recovery from wounds, transport systems for, 968
- Analytic variation, in clinical chemistry, 374
- Anemia
  - aplastic, marrow transplantation in, 887
  - sickle cell, see Sickle cell disease
- Angiogenesis, in graft-versus-host reaction, 720
- Angiotensin-converting enzyme, immunohistochemical detection of, in sarcoidosis (abstract), 648
- Anticoagulants, and computer-assisted heparin monitoring, 74
- Anticonvulsants
  - immunoblastic lymphadenopathy after diphenylhydantoin therapy, 715
  - interlaboratory variation for assays in plasma, 306
- Antifungal agents, assay for yeast susceptibility to, 186

### Antimicrobial agents

- activity of new cephalosporins, 578, 858
- resistance of small-colony forms of enteric bacteria to aminoglycosides, 79
- Antimicrobial susceptibility tests
  - for *Haemophilus* species in clinical specimens (letters), 133
  - for new cephalosporins, 578, 858
  - for pseudomonads to gentamicin, 861
  - reporting of results in, 864
- Antithrombin III measurements, oral contraceptives affecting (letters), 134
- Archival system, for clinical laboratory data, 1013
- Arrhythmias, in lipomatous hypertrophy of cardiac interatrial septum, 785
- Arteriosclerotic heart disease, and platelet factor 4 levels (abstract), 649
- Arthritis, rheumatoid factor in, see Rheumatoid factor
- Ascorbic acid, and inhibition of tests for blood in urine, 468
- Aspartate aminotransferase, activity measured by 450 laboratories, 285
- Aspergillosis
  - and infection of burn wound, 230
  - as opportunistic infection in cancer patients, 617
- Autoantibody formation, in graft-versus-host disease, 708, 717
- Autopsy studies
  - of opportunistic fungal infection in cancer patients, 617
  - potassium in vitreous humor related to postmortem interval (abstract), 651
  - renal, immunofluorescence in, 222
  - vitreous humor chemistry in sudden infant death syndrome (letters), 493

#### B

- Bacitracin susceptibility test, for group A streptococci identification, 463
- Bacteremia, diagnosis by buffy coat micromethod, 437
- Bacteria
  - counts in blood, in septicemia, 437
  - enteric
    - small-colony forms resistant to aminoglycosides, 79
    - systems for identification of (abstract), 646
  - growth on selected dye media, 868
  - transport systems for, 968
- Bilirubin, stability of mean values in quality control serum, 274
- Biopsy
  - of bladder, in eosinophilic cystitis, 779
  - bone marrow
    - absence of iron stores in, compared to serum ferritin levels, 817
    - and cellularity in various types of specimens, 812
    - iron detection in, 68
    - and rapid processing of specimen for thin plastic sections (abstract), 649
  - endocervical colposcopic, compared to cytologic findings (abstract), 645
  - of lung, needle-aspiration, in silicosis, 871
  - pleural, 48
  - transbronchoscopic, diagnostic yield of, 926
  - transcatheter bronchial brush and forceps in, 163

- Bladder, in eosinophilic cystitis, 777
- Blind sample analysis, and quality control, 156
- Blood
- capillary, platelet counts in, 410
  - chemical analysis of, see Chemical analysis of blood
  - cultures of, see Cultures, blood
  - detection in urine, ascorbic acid affecting, 468
  - enzymatic analyses with reagent kits, 151
  - osmolality affected by propylene glycol, 633
  - specimens taken from iv arm, 101
  - transfusions of platelets, and antileukocyte antibodies in refractoriness, 893
  - whole
    - control preparations of, and quality control in hematology, 426
    - variable responses to heparin (letters), 132
    - xylose determinations with colorimetric micromethod (abstract), 653
- Blood bank, survey program of CAP, 352
- Blood-drawing tubes, hard and soft glass for, 952
- Bone marrow
- aspirate smears in metastatic neuroblastoma, 1008
  - cellularity in various types of specimens, 812
  - chromosomal analysis of cells in leukemias (abstract), 652
  - heterotopia of, tumor-stimulating, 486
  - iron stores in biopsy specimens compared to serum ferritin levels, 817
  - rapid processing of biopsy specimen for thin plastic sections (abstract), 649
  - stainable iron in aspirated smears and needle-biopsy specimens, 68
  - TdT immunofluorescence in smears, 898
  - transplantation in aplastic anemia and acute leukemia, 887
- Bovine plasma reference standard, in factor VIII assay, 855
- Boyd, William (in memoriam), 1044
- Brain
- in meningoencephalitis from *Micronema deletrix*, 640
  - pathology in systemic fibrosclerosis with islet cell adenoma (letters), 252
- Branhamella catarrhalis*, ophthalmia neonatorum from, 471; (abstract), 651
- Breast
- carcinoid tumors of, 909
  - carcinoma of
    - nipple involvement in (abstract), 648
    - with osteoclast-like giant cells, 383
  - estrogen receptor assay, 564
  - and preparation of tissue samples for transport (letters), 128
  - immunohistologic studies of benign and malignant lesions (abstract), 647
- Buffy coat microscopy, in sepsis diagnosis, 437
- Burns, and infection by *Aspergillus niger*, 230
- C**
- Calcium, urinary, and interlaboratory comparison quality control program, 299
- Candidiasis
- and assay for yeast antifungal susceptibility, 194
  - and detection of precipitins in sera from cancer patients, 215
  - as opportunistic infection in cancer patients, 617
  - and precipitins determined by CIE in leukemia, 963
- Capillary blood, platelet counts in, 410
- Carbamazepine, interlaboratory variation for assays in plasma, 306
- Carcinoid tumors, mammary, 909
- Carcinoma
- of breast
    - estrogen receptor assay in, 564
    - nipple involvement in (abstract), 648
    - with osteoclast-like giant cells, 383
    - and preparation of tissue samples for transport (letters), 128
  - cytologic diagnosis compared to pleural biopsies, 48
  - endometrial, in situ (letters), 130
  - of lung, TICAS analysis of cells in, 52
- Cefaclor, evaluation of, 578
- Cefamandole, in vitro activity against bacterial pathogens, 858
- Cefatrizine, evaluation of, 578
- Cell studies, see Cytology
- Cephalosporins
- antimicrobial action of, 578
  - in vitro activity of new agent against bacterial pathogens, 858
- Cephalothin, in vitro activity against bacterial pathogens, 858
- Cerebrospinal fluid
- cytology by cytocentrifuge method, 931
  - and cytology of ganglioglioma (abstract), 645
  - lactic acid levels in acute meningitis (abstract), 654
- Cestodes, fecal, procedures for identification of, 371
- Charcot-Marie-Tooth disease, IgA deficiency in, 800
- Chemical analysis of blood
- computer-generated interpretive reporting of, 32
  - and drawing of specimens from iv arm, 101
  - and effects of serum storage in hard and soft glass tubes, 952
  - and evaluation of enzyme reagent kits, 151
  - quality control in, see Quality control
- Chemotaxis, and neutrophil migration under agarose, 956
- Childhood
- see also Neonates
  - hepatitis B-associated membranous glomerulonephritis, 1034
  - leukemia in, 746
    - acute lymphoblastic, followed by acute granulocytic leukemia, 242
    - kinetic studies of cells in, 753
  - lymphomas in, 746
  - nephrotic syndrome in, mesangioproliferative, 42
- Cholesterol
- stability of mean values in quality control serum, 274
  - tocopherol affecting HDL cholesterol, 848
- Chordoma, metastases from, 765
- Chromatography
- gas-liquid, of phencyclidine levels in plasma, 795
  - in IgD myeloma, 246
  - microcolumn, in hemoglobin A<sub>2</sub> determinations, 415
- Chromosome abnormalities
- and analysis of bone marrow cells in leukemias (abstract), 652
  - hypodiploidy in acute lymphoblastic leukemia, 1018
  - in leukemias, 738, 740, 741
- Coagglutination, staphylococcal, for group A streptococci identification, 463
- Coagulation
- see also Factor VIII
  - and assays for von Willebrand factor, 991, 996
  - and computer-assisted heparin monitoring, 74
  - and laboratory prediction of carrier state in hemophilia B, 1000
- Cold agglutinins, and erythrocyte ecdysis in sickle cell anemia, 479
- Colitis, pseudomembranous, clinicopathologic studies of (abstract), 647
- College of American Pathologists, quality assurance programs of, 257
- Colorimetric micromethod, for xylose determinations (abstract), 653
- Colposcopic biopsy, endocervical, compared to cytologic findings (abstract), 645



- Complement  
diffused generalized pseudolinear deposition in glomerular basement membrane (abstract), 651  
in pericardial fluid, 972  
receptors for, 674, 689
- Computer use  
in archival system for laboratory data, 1013  
for cumulative laboratory reports, 841  
in heparin monitoring, 74  
in interpretive reporting of laboratory tests, 32  
for microbiology laboratory data, 444; (abstract), 647  
minicomputers for analysis of large numbers of data, 207  
and TICAS analysis of pulmonary cytology, 52
- Conjunctivitis, from *Branhamella catarrhalis*, 471; (abstract), 651
- Contraceptives, oral, and antithrombin III measurements (letters), 134
- Control preparations, of whole blood, and quality control in hematology, 426
- Cortisol  
comparison of methods for assays of, 146  
precision of assays for, 320
- Coulter Model S, compared to cyanmethemoglobin for hemoglobin determinations, 904
- Counterimmunoelectrophoresis  
for *Candida* antibody detection in cancer patients, 215  
for *Candida* precipitins in leukemia, 963  
for group A streptococcal antigen, 836
- Creatine kinase, activity measured by 450 laboratories, 285
- Creatinine  
clinical estimation of clearance, 27  
stability of mean values in quality control serum, 274  
urinary, and interlaboratory comparison quality control program, 299
- Crithida luciliae* test, for antibodies to native DNA, 829
- Cryptosporidiosis, in renal transplant recipient, 473
- Cultures  
of blood  
and detection of bacteremia and fungemia, 437  
and erroneous diagnosis of leptospirosis, 459  
evaluation of anaerobic culture media in, 199  
and comparison of swab culture systems, 968  
and dyes in media for isolation of fungi, 868  
for herpes simplex virus type 2, storage and transport of, 977  
of intravenous steel needles, 980  
and pectin agar medium for isolation of *Yersinia enterocolitica*, 586  
of urethral secretions, and effect of medium temperature on gonococci recovery, 84
- Cyanmethemoglobin, compared to Coulter Model S for hemoglobin determinations, 904
- Cystic fibrosis, sweat tests in  
comparison of two tests, 142  
and differences between filter paper and gauze in, 211
- Cystitis, eosinophilic, 777
- Cytochrome method, for cytology of CSF, 931
- Cytochemical markers, in epithelial neoplasia (abstract), 645, 789
- Cytochemistry, in diagnosis of acute myelomonocytic leukemia, 59
- Cytogenetic studies, see Chromosome abnormalities
- Cytology  
of cerebrospinal fluid, by cytochrome method, 931  
compared to endocervical colposcopic biopsy (abstract), 645  
flow cytofluorimetry in, 533  
of ganglioglioma (abstract), 645  
of ophthalmic lesions (abstract), 645  
of pleural fluids, 48  
pulmonary, TICAS analysis of, 52
- Cytomegalovirus infection, with immune-complex glomerulonephritis, 103
- Cytotoxicity, lymphocytic, against myocardial cells, 1
- ### D
- Data processing  
and analysis with programmable calculator, 207  
archive system for, 1013  
computers in, see Computer use  
and interpretive reporting of laboratory tests, 32  
and microbiology reporting systems, 841
- Decidualized cells, in leiomyomatosis peritonealis disseminata, 875
- Densitometry, for hemoglobin A<sub>2</sub> determinations, 415
- Deoxyribonuclease activity, of *Salmonella enteritidis*, 82
- Diasase, and PAS staining in leukemia (abstract), 652
- Diethylstilbestrol-exposed progeny  
and intraepithelial squamous abnormalities, nuclear DNA patterns in, 503  
and nuclear DNA content of glandular cells in vaginal adenosis, 515
- Differentiation antigens, 677
- Digoxin  
evaluation of commercial assay kits for, 341  
interlaboratory variation for assays in plasma, 306  
precision of assays for, 320
- Diphenylhydantoin  
immunoblastic lymphadenopathy after therapy with, 715  
interlaboratory variation for assays in plasma, 306
- DNA  
native, test for antibodies to, 829  
nuclear patterns  
in cervical intraepithelial squamous lesions in DES-exposed progeny, 503  
in glandular cells in vaginal adenosis, in DES-exposed progeny, 515
- Dopamine- $\beta$ -hydroxylase deficiency, in pheochromocytoma, 175
- Drug abuse, with phencyclidine, 795
- Drug hypersensitivity, evaluation of tests in (abstract), 650
- Dyes in media, in isolation of fungi, 868
- ### E
- E rosettes, and identification of T cells, 661, 673, 689, 700
- EDTA, and agglutination causing pseudothrombocytopenia, 1005
- Electroimmunoassay, rapid, for factor VIII-related antigen, 821
- Electron microscopy  
and diagnosis of toxoplasmosis with fine-structural analysis, 225  
of endometrial stromal foam cells, 628  
of epithelial foot-process effacement in proteinuria, 529  
of erythrocytic ecdysis in sickle cell anemia, 479  
of hand-mirror cells in acute lymphoblastic leukemia, 551  
in leiomyomatosis peritonealis disseminata, 875  
of leukemic cells, 738, 739  
in lupus nephritis, 186  
of myxoid liposarcoma, 521  
in pulmonary silicosis, 871
- Electronic particle counter, compared to microhematocrit, 71
- Electrophoresis  
with densitometry, for hemoglobin A<sub>2</sub> determinations, 415  
immune complex (abstract), 651  
immunofixation, in gammopathies, 5
- Embolization  
pulmonary, from cotton fibers (abstract), 648  
systemic, with myxomatous degeneration of mitral valve, 489



- Endocarditis, nonbacterial thrombotic, with myxomatous degeneration of mitral valve, 489
- Endometrium  
criteria for carcinoma in situ (letters), 130  
ultrastructure of stromal foam cells, 628
- Enterobacteriaceae  
deoxyribonuclease activity of, 82  
identification with Micro-ID (abstract), 646  
pectin agar medium for isolation of *Yersinia enterocolitica*, 586
- Enzymes  
analysis with reagent kits, 151  
 $\alpha$ -naphthyl acetate esterase activity in epithelial neoplasia (abstract), 645, 789  
nonspecific esterases in leukemic blasts, 611  
survey of analyses by 450 laboratories, 285
- Eosinophilic cystitis, 777
- Epidemiologic monitoring, computer use in, 444
- Epithelial neoplasia, cytochemical markers in (abstract), 645, 789
- Erythrocytes  
and E rosette formation, 661, 673, 689, 700  
ecdysis in sickle cell anemia, 479  
sedimentation rate compared with zeta sedimentation rate, 65
- Esterases  
nonspecific, in leukemic blasts, 611  
reaction in diagnosis of acute myelomonocytic leukemia, 59
- Estrogen receptors in breast cancer  
and preparation of tissue samples for transport (letters), 128  
sources of error in assays for, 564
- Ethanol gel test, for fibrin monomer detection, 405
- Ether, diethyl, additives in, and inhibition of toluidine blue O stain for *Pneumocystis carinii* (letters), 493
- Ethosuximide, interlaboratory variation for assays in plasma, 306
- Eye  
cytodiagnosis of lesions (abstract), 645  
postmortem vitreous humor chemistry in sudden infant death syndrome (letters), 493  
potassium in vitreous humor related to postmortem interval (abstract), 651  
pseudogonococcal ophthalmia neonatorum, 471; (abstract), 651
- F**
- Factor VIII  
bovine plasma as reference standard for assay, 855  
photo-optical assay of, 204  
precision of assay systems for, 346
- Factor VIII-related antigen, rapid electroimmunoassay for, 821
- Factor IX deficiency, and laboratory prediction of carrier state, 1000
- Family studies  
of autosomal dominant neutropenia (abstract), 652  
of IgA deficiency in Charcot-Marie-Tooth disease, 800  
of patients with IgA nephropathy, 452
- Fast garnet GBC, in detection of leukocyte acid phosphatase (letters), 886
- Fc receptors, cellular, 675, 689
- Feces  
detection of fetal hemoglobin in (letters), 131  
parasite identification in, survey of, 371
- Ferricyanide, and glucose measurements in body fluids, 337
- Ferritin levels, compared to iron stores in marrow biopsy specimens, 817
- Fetal hemoglobin, quantitation of, 421
- Fetomaternal hemorrhage, detection of, and Rh immune globulin usage, 358
- Fetus, mycoplasma infection of, 167
- Fibrin, detection of monomer in plasma, 405
- Fibrinogen in plasma, comparison of three methods for (abstract), 646
- Fibrosclerosis, systemic, with intracranial involvement and islet cell adenoma (letters), 252
- Flow cytometry, in cytology, 533
- Fluorescent antibody test, in detection of typhoid carrier, 87
- 5-Fluorocytosine, yeast susceptibility to, assay for, 194
- Foam cells, of endometrial stroma, 628
- Folic acid, precision of assays for, 320
- Foot-process effacement, epithelial, in proteinuria, 529
- Fungus infections  
and assay for yeast antifungal susceptibility, 194  
and *Candida* antibody detection in cancer patients, 215  
and *Candida* precipitins determined by CIE in leukemia, 963  
diagnosis of fungemia by buffy coat micromethod, 437  
and dyes used in isolation of fungi, 868  
opportunistic, in cancer patients, 617
- G**
- Gammopathies, immunofixation electrophoresis in, 5
- Ganglioglioma, cytology of (abstract), 645
- Gentamicin  
interlaboratory variation for assays in plasma, 306  
nephrotoxicity of, and urinary myelin figures, 621  
pseudomonad susceptibility to, 861  
synergism with ampicillin in *Listeria monocytogenes* infections, 974
- Giant cells  
in myocarditis (abstract), 647  
osteoclast-like, in mammary carcinoma, 383
- Glass, hard and soft, for blood-drawing tubes, 952
- Glomerulonephritis  
immune-complex  
with cytomegalovirus infection, 103  
in graft-versus-host reaction, 717  
membranous, hepatitis B-associated, in childhood, 1034
- Glucose  
survey program for measurements in serum and urine, 337  
urinary, and interlaboratory comparison quality control program, 299
- Glucose oxidase, and glucose measurements in body fluids, 337
- Glycogen, in renal interstitial cells, in uremia, 400
- Gonococci  
cultures of, and effects of medium temperature, 84  
and pseudogonococcal ophthalmia neonatorum, 471; (abstract), 651
- Graft-versus-host reaction  
angiogenesis in, 720  
autoantibody formation in, 708, 717  
combination of diseases in, 718  
and immunoblastic lymphadenopathy, 711  
and immunoblastic sarcoma, 713  
immunologic mechanisms in, 708  
skin lesions in, 719
- Gram-stained direct smears, quality assurance of, 984
- Granuloma, pulmonary, with fiber embolism (abstract), 648
- Guillain-Barré syndrome, and effects of influenza virus vaccine on T cells (abstract), 650
- Gynecologic cytology, flow cytometry in, 533
- H**
- Haemophilus* species, antimicrobial susceptibility in clinical specimens (letters), 133
- Hand-mirror cells, in acute lymphoblastic leukemia, 551
- Hartman, Frank Wilbur (in memoriam), 1043

## Heart

- giant cell myocarditis (abstract), 647
- lipomatous hypertrophy of interatrial septum, 785
- lymphocyte cytotoxicity against cardiac cells in myocardial disease, 1
- myoglobin levels in myocardial infarction, 137
- myxomatous degeneration of mitral valve with complications, 489
- pericardial-fluid complement, 972
- pericarditis from *Streptomyces* species, 107

Heavy-chain disease, alpha, immunoselection in diagnosis of (letters), 132

## Hematocrit

- determinations by microhematocrit and electronic particle counter, 71
- and responses of whole blood to heparin (letters), 132

## Hematology

- and drawing of blood from iv arm, 101
- intralaboratory quality control of, 426
- proficiency testing in immunohematology in Canada, 559
- quality control in, see Quality control

## Hematopoiesis, extramedullary

- and hepatic nodular hyperplasia in myelofibrosis, 122
- retrorectal mass of, 486

## Hemoglobin

- assay with leucomalachite green, 852
- CO Arab disease (abstract), 653
- comparison of methods for determination of, 904
- Cowtown, 1028
- densitometry for HbA<sub>2</sub> determinations, 415
- detection of sickle type in neonates (letters), 251
- detection in urine, ascorbic acid affecting, 468
- fetal, detection in stools (letters), 131
- quantitation of HbF, 421
- separation of HbA<sub>2</sub> from HbS, 604
- SO Arab disease (abstract), 653

Hemolytic disease of newborn, subclinical, due to anti-e, 76

Hemophilia B, and laboratory prediction of carrier state, 1000

## Heparin

- computer-assisted monitoring of, 74
- variable responses of whole blood to (letters), 132

Hepatitis B-associated membranous glomerulonephritis, in childhood, 1034

Herpes simplex virus type 2, storage and transport of cultures for, 977

Heterotopia of bone marrow, tumor-stimulating, 486

Hexokinase, enzyme, and glucose measurements in body fluids, 337

## Histiocytosis

- malignant, cytochemical markers in (abstract), 645, 789
- sinus, with massive lymphadenopathy (abstract), 649

Histochemistry, enzyme, and rapid processing of marrow biopsy specimen for thin plastic sections (abstract), 649

## HLA system, 732

- and determination of compatibility with programmable calculator, 207
- diseases associated with, 733
- and familial factors in IgA nephropathy, 452
- genetics of, 732
- and platelet matching, 893

Hodgkin's disease, HLA system associated with, 734

Hydantoin, see Diphenylhydantoin

## Hyperplasia

- endometrial, with foam cells in stroma, 628
- of liver, nodular
- with myelofibrosis, 122
- regenerative (abstract), 648

Hypertension, portal, in hepatic nodular hyperplasia with myelofibrosis, 122

## I

Immune complex electrophoresis (abstract), 651

- Immune complex glomerulonephritis
- with cytomegalovirus infection, 103
- in graft-versus-host reaction, 717

Immune globulin, Rh

- and fetomaternal hemorrhage detection, 358
- program for optimal utilization of, 456

Immune precipitate method, for fibrin monomer detection, 405

## Immunization

- and effects of influenza virus vaccine on T cells in Guillain-Barré syndrome (abstract), 650
- with live attenuated influenza virus vaccines (letters), 252
- and postvaccination lymphadenopathy, 714

Immunoblastic lymphadenopathy, see Lymphadenopathy

Immunoblastic sarcoma, see Sarcoma

## Immunoelectrophoresis

- crossed, of streptococci, 12
- in IgD myeloma, 246
- immune complex (abstract), 651

Immunofixation electrophoresis, in gammopathies, 5

## Immunofluorescence

- compared with nephelometry for Ig quantitation in abnormal sera (abstract), 650
- of deposits in lupus nephritis, 186
- dermal and renal, in disorders with nephritis (abstract), 646
- of renal tissue autopsy specimens, 222
- of TdT in marrow smears, 898

## Immunoglobulins

- and agglutinins causing pseudothrombocytopenia, 1005
- diffuse generalized pseudolinear deposition in glomerular basement membrane (abstract), 651
- familial factors in IgA nephropathy, 452
- IgA deficiency
- in Charcot-Marie-Tooth disease, 800
- and cryptosporidiosis in renal transplant recipient, 473
- quantitation in abnormal sera with nephelometry or immunofluorescence (abstract), 650
- surface Ig
- in leukemias, 737
- of lymphocyte membrane, 676, 689
- in pure monocytic leukemia, 614

Immunohematology, proficiency testing in Canadian laboratories, 559

Immunohistochemical method, for sarcoidosis diagnosis (abstract), 648

Immunohistologic studies, of benign and malignant breast lesions (abstract), 647

## Immunology

- and basis for redefinition of lymphomas, 670
- and biology of HL-A system, 732
- Candida antibody detection in cancer patients, 215
- and cell-mediated injury of myocardial cells, 1
- and class-specific antibody determination in mononucleosis (abstract), 653
- cytochemical markers in epithelial neoplasia (abstract), 645, 789
- differentiation antigens, 677
- and graft-versus-host disease, 708
- leukemia-associated antigens, 679
- multiparameter studies in lymphoid leukemias, 736
- and neoplasms of immunoregulatory cells, 724
- and pathology of malignant lymphomas, 657
- slide tests for detection of group A streptococcal antibodies, 218
- studies of T-cell lymphomas, 540
- surface markers for T- and B-cell systems, 661, 672, 689, 700

- test for antibodies to native DNA, 829
- Vi antibody estimation in typhoid carriers, 87
- Immunomicroscopy, in IgD myeloma, 246
- Immunoperoxidase studies, in lymphomas, 661, 688
- Immunoselection technic, in diagnosis of alpha heavy-chain disease (letters), 132
- Immunosuppression
  - and actinomycotic pulmonary abscess, 637
  - and cryptosporidiosis in renal transplant recipient, 473
  - induced by graft-versus-host reaction, 712
- Inflammatory disease, and zeta sedimentation ratio, 65
- Influenza
  - effect of virus vaccine on T cells in Guillain-Barré syndrome (abstract), 650
  - and studies with live attenuated virus vaccines (letters), 252
- Insulin, precision of assays for, 320
- Interpretive reporting, of laboratory tests, 32
- Interstitial cells, renal, glycogen in, in uremia, 400
- Intravenous infusions, and drawing of blood specimens, 101
- Intravenous steel needles, semiquantitative culturing of, 980
- Iron
  - in marrow biopsy specimens, compared to serum ferritin levels, 817
  - stainable, in aspirated and needle-biopsy marrow specimens, 68
- K**
- 17-Ketogenic steroids, urinary, and interlaboratory comparison quality control program, 299
- Kidney
  - in Alport's syndrome with macrothrombopathic thrombocytopenia, 111
  - cryptosporidiosis in transplant recipient, 473
  - dermal and renal immunofluorescence in disorders with nephritis (abstract), 646
  - familial factors in IgA nephropathy, 452
  - foot-process effacement in proteinuria, 529
  - function tests of, and creatinine clearance estimation, 27
  - gentamicin nephrotoxicity with urinary myelin figures, 621
  - glycogen in interstitial cells, in uremia, 400
  - hepatitis B-associated membranous glomerulonephritis in childhood, 1034
  - immune-complex glomerulonephritis
    - with cytomegalovirus infection, 103
    - in graft-versus-host reaction, 717
  - immunofluorescence of tissue autopsy specimens, 222
  - immunoglobulin and complement deposits in glomerular basement membrane (abstract), 651
  - mesangioproliferative nephrotic syndrome, 42
  - subendothelial deposits in lupus nephritis, 186
  - unique urinary cast in pyelonephritis (abstract), 651
- Kits available
  - for detection of streptococcal antibodies, 218
  - for digoxin assay, evaluation of, 341
  - evaluation of enzyme reagent kits, 151
  - for latex fixation test, evaluation of, 591, 597
  - for mononucleosis heterophil antibody tests, 363
  - for prolactin radioimmunoassay (abstract), 646
  - for rapid factor VIII-related antigen determination, 831
- Klebsiella ozaenae*, meningitis and septicemia from, 1033
- Kolmogorov test, sensitivity of, 21
- L**
- Laboratory data, see Data processing: Quality control: Tests
- Lactate dehydrogenase, activity measured by 450 laboratories, 285
- Lactic acid, in cerebrospinal fluid, in acute meningitis (abstract), 654
- Latex-fixation test, quality control of, 591, 597
- Leiomyomatosis peritonealis disseminata, 875
- Leptospirosis, erroneous diagnosis with pseudospirochetes, 459
- Leucomalachite green assay, for free hemoglobin in serum, 852
- Leukemia
  - acute
    - and Candida precipitins determined with CIE, 963
    - marrow transplantation in, 887
  - acute granulocytic, after acute lymphoblastic leukemia, 242
  - acute lymphoblastic
    - followed by acute granulocytic leukemia, 242
    - hand-mirror cells in, 551
    - hypodiploidy in, 1018
    - and hypogammaglobulinemia, 728
  - acute lymphocytic
    - HLA system associated with, 734
    - multiparameter studies in, 740
    - splenic rupture in, 118
  - acute myelomonocytic
    - cytochemical diagnosis of, 59
    - and Tn polyagglutinability, 1024
  - B-cell, chronic, multiparameter studies in, 737
  - in childhood, 746
    - kinetic studies of cells in, 753
  - and chromosomal analysis of bone marrow cells (abstract), 652
  - chronic lymphocytic, and HLA antigens, 735
  - chronic neutrophilic, 233, (abstract), 652
  - monocytic, surface immunoglobulin in, 614
  - and nonspecific esterases in blasts, 611
  - opportunistic fungal infections in, 617
  - PAS staining in, and use of diastase (abstract), 652
  - T-cell lymphocytic
    - acute, 700
    - chronic, 702, 739
    - subacute, in Japan, 727
- Leukemia-associated antigens, 679
- Leukocytes
  - acid phosphatase detection (letters), 886
  - alkaline phosphatase content in chronic neutrophilic leukemia, 233
  - antibodies to, and refractoriness to platelet transfusions, 893
  - interpretation of counts in neonates, 608
- Levine Award Lecture, 887
- Lilliefors test, sensitivity of, 21
- Lipomatous hypertrophy, of cardiac interatrial septum, 785
- Lipoproteins, cholesterol redistribution in, after vitamin E, 848
- Liposarcoma, myxoid, ultrastructure of, 521
- Listeria monocytogenes*, and synergistic effects of ampicillin and gentamicin, 974
- Lithium, interlaboratory variation for assays in plasma, 306
- Liver
  - cytochemical markers in hepatocellular carcinoma, 789
  - nodular regenerative hyperplasia in myelofibrosis, 122
  - nodular transformation of (abstract), 648
- Lung
  - actinomycotic abscess in immunosuppressed patient, 637
  - carcinoma of, and TICAS analysis of cells, 52
  - extralobar sequestration of, 917
  - fiber embolism and granuloma of (abstract), 648
  - silicosis of, 871
  - suspension smears in diagnosis of *Pneumocystis carinii* pneumonia, 90
  - transbronchoscopic biopsy of, 916
  - transcatheter bronchial brush and forceps biopsies of, 163
- Lupus erythematosus, systemic
  - pathogenesis of, 708
  - subendothelial deposits in nephritis, correlation with proteinuria, 186

- and test for antibodies to native DNA, 829
- Lymph nodes, nevus cells in, 97
- Lymphadenopathy
  - immunoblastic, 666, 708
    - after diphenylhydantoin therapy, 715
    - of graft-versus-host reaction, 711
    - of unknown etiology, 716
  - massive, with sinus histiocytosis (abstract), 649
  - postvaccination, 714
- Lymphocytes
  - B cells, 671
    - in lymphomas, 657, 670, see also Lymphomas
    - surface markers for, 661, 672, 689
  - complement receptors of, 674, 689
  - cytotoxicity against myocardial cells, 1
  - and differentiation antigens, 677
  - and E rosette formation, 661, 673, 689, 700
  - Fc receptors of, 675, 689
  - IgA-bearing, in families with IgA nephropathy, 452
  - surface immunoglobulin of, 676, 689
  - T cells, 671, 699
    - helper and suppressor activity of, 724
    - identification with E rosettes, 661, 673, 689, 700
    - in lymphomas, 540, 657, 670, see also Lymphomas
    - reactions altered by viruses or drugs, 720
    - surface markers for, 661, 672, 689, 700
  - transformation of
    - in drug hypersensitivity (abstract), 650
    - in lymphomas, 657, 694
- Lymphomas
  - B-cell, 660
    - multiparameter studies of, 687
  - characterization by immunologic techniques, 670
  - in childhood, 746
  - classifications of, 666
  - dynamic interpretation of multiparameter studies in, 756
  - follicular-center-cell, 659
  - in graft-versus-host reaction, 712
  - HLA system associated with, 734
  - histiocytic, 540, 660
  - immunologic approach to pathology of, 657
  - Lennert's, 705
  - Mediterranean, and diagnosis of alpha heavy-chain disease (letters), 132
  - opportunistic fungal infections in, 617
  - and prelymphomatous states, 665
  - spontaneous, of SJL mice, 715
  - T-cell, 540, 660
    - cutaneous, 704
    - multiparameter studies of, 699
  - T-zone, 705
  - thymic, 703

## M

- M rosettes, in chronic B-cell leukemias, 737
- Macroglobulinemia, immunofixation electrophoresis in, 5
- Marrow, see Bone marrow
- Meningitis
  - acute, and lactic acid in cerebrospinal fluid (abstract), 654
  - from *Klebsiella ozaenae*, 1033
- Meningoencephalitis, from *Micronema deletrix*, 640
- Mesangial-cell proliferation, in nephrotic syndrome in childhood, 42
- Metastases
  - of chordoma, 765
  - of neuroblastoma, marrow aspirate smears in, 1008
- Microbial counts in blood, in septicemia, 437

## Microbiology

- comparison of systems for identification of enteric bacterial pathogens (abstract), 646
- and computer-managed laboratory data, 444; (abstract), 647
- and quality control of agar diffusion susceptibility tests, 365
- reporting systems in, 444, 841
- Microcolumn chromatography, in hemoglobin A<sub>2</sub> determinations, 415
- Microcytosis, with sickle cell anemia, 63
- Microhematocrit, compared to electronic particle counter, 71
- Micro-ID, for identification of enteric bacterial pathogens (abstract), 646
- Micromethod
  - buffy coat, for bacteremia diagnosis, 437
  - colorimetric, for xylose determinations (abstract), 653
  - for factor VIII-related antigen, 821
- Micronema deletrix*, meningoencephalitis from, 640
- Microtitration assay, for von Willebrand factor, 996
- Mitral valve, myxomatous degeneration of, complications in, 489
- Monitoring
  - of disease activity
    - and computer use in hospitals, 444
    - and zeta sedimentation ratio, 65
  - of drug therapy
    - with heparin, computer use in, 74
    - interlaboratory survey program in, 306
- Mononucleosis, infectious
  - class-specific antibody determination in (abstract), 653
  - controls for slide tests in (letters), 1040
  - false-positive tests for, 807
  - and heterophil antibody tests, 363
- Monospot test, false-positive results with, 807
- Mycoplasma infection, genital, 167
- Mycosis fungoides, 704, 726
- Myelin figures, urinary, in gentamicin nephrotoxicity, 621
- Myelofibrosis, and hepatic nodular hyperplasia, 122
- Myeloma, multiple
  - IgD myeloma, 246
  - immunofixation electrophoresis in, 5
- Myocardial disorders, see Heart
- Myofibroblasts, in leiomyomatosis peritonealis disseminata, 875
- Myoglobin levels, in myocardial infarction, 137
- Myosin, in platelet external membrane (abstract), 649
- Myxoid liposarcoma, ultrastructure of, 521
- Myxomatous degeneration, of mitral valve, complications in, 489

## N

- $\alpha$ -Naphthyl acetate esterase activity, in epithelial neoplasia (abstract), 645, 789
- Neisseria gonorrhoeae*
  - cultures of, and effects of medium temperature, 84
  - and pseudogonococcal ophthalmia neonatorum, 471; (abstract), 651
- Nematodes
  - fecal, procedures for identification of, 371
  - and meningoencephalitis from *Micronema deletrix*, 640
- Neocuproine, and glucose measurements in body fluids, 337
- Neonates
  - detection of fetal hemoglobin in stools (letters), 131
  - detection of sickle hemoglobin in (letters), 251
  - hemolytic disease due to anti-e, 76
  - interpretation of leukocyte counts in, 608
  - pseudogonococcal ophthalmia neonatorum, 471; (abstract), 651
- Neoplasia
  - see also Carcinoma and other specific tumor types
  - and Candida antibody detection in cancer patients, 215



- epithelial, cytochemical markers in (abstract), 645, 789
- and extramedullary hematopoiesis, 486
- ganglioglioma cytology (abstract), 645
- with graft-versus-host reaction, 712
- of immunoregulatory cells, 724
- islet cell adenoma and systemic fibrosclerosis with intracranial involvement (letters), 252
- lymphomas, see Lymphomas
- metastases from chordoma, 765
- metastatic neuroblastoma in marrow aspirate smears, 1008
- myxoid liposarcoma ultrastructure, 521
- pheochromocytoma with dopamine- $\beta$ -hydroxylase deficiency, 175
- prognostic factors in adrenal cortical tumors, 390
- tumor-associated antibody in benign and malignant breast lesions (abstract), 647
- Nephelometry
  - compared with immunofluorescence for Ig quantitation in abnormal sera (abstract), 650
  - for rheumatoid factor quantitation, 432
- Nephrotic syndrome, mesangioproliferative, in childhood, 42
- Neuroblastoma, metastatic, marrow aspirate smears in, 1008
- Neuropathy, peripheral, and IgA deficiency in Charcot-Marie-Tooth disease, 800
- Neutropenia, chronic, autosomal dominant (abstract), 652
- Neutrophils, migration under agarose, 956
- Nevus cells, in lymph nodes, 97
- Normality, tests of, 21

## O

- Ophthalmia neonatorum, pseudogonococcal, 471; (abstract), 651
- Opportunistic fungal infections, in cancer patients, 617
- Osmolality
  - of serum, propylene glycol affecting, 633
  - urinary, and interlaboratory comparison quality control program, 299
- Osteoclast-like giant cells, in mammary carcinoma, 383

## P

- Pancreas, islet cell adenoma and systemic fibrosclerosis with intracranial involvement (letters), 252
- Parasites
  - fecal, procedures for identification of, 371
  - and meningoencephalitis from *Micronema deletrix*, 640
- PAS staining in leukemia, and use of diastase (abstract), 652
- Pectin agar medium, for isolation of *Yersinia enterocolitica*, 586
- Percentiles, as reference values for laboratory data, 94
- Pericardial-fluid complement, 972
- Pericarditis, from *Streptomyces* species, 107
- Phencyclidine abuse, clinical findings in, 795
- Phenobarbital, interlaboratory variation for assays in plasma, 306
- Phenytoin
  - immunoblastic lymphadenopathy after therapy with, 715
  - interlaboratory variation for assays in plasma, 306
- Pheochromocytoma, and dopamine- $\beta$ -hydroxylase deficiency, 175
- Phloroglucinol, and colorimetric micromethod for xylose determinations (abstract), 653
- Phosphorus
  - serum, laboratory estimations of, 326
  - urinary
    - and interlaboratory comparison quality control program, 299
    - laboratory estimations of, 326
- Phosphotungstic acid method, for serum uric acid, 330
- Photo-optical assay, for factor VIII, 204
- Placenta, mycoplasma infection of, 167

## Platelets

- in Alport's syndrome with macrothrombopathic thrombocytopenia, 111
- counts in capillary blood, 410
- external membrane proteins (abstract), 649
- factor 4 levels, in arteriosclerotic heart disease (abstract), 649
- formalin-fixed, in assay for von Willebrand factor, 996
- pseudothrombocytopenia from agglutinins, 1005
- transfusions of, and antileukocyte antibodies in refractoriness, 893
- Pleura, biopsies of, 48
- Pleural fluids, cytologic evaluation of, 48
- Pneumocystis carinii*
  - rapid laboratory diagnosis of pneumonia, 90
  - toluidine blue O stain for, inhibition by additives in diethyl ether (letters), 493
- Polyagglutinability, persistent mixed-field, in AML, 1024
- Postmortem findings, see Autopsy studies
- Potassium
  - urinary, and interlaboratory comparison quality control program, 299
  - in vitreous humor, related to postmortem interval (abstract), 651
- Precision testing, see Quality control
- Prediction scheme, for creatinine clearance estimation, 27
- Pregnancy
  - and fetomaternal hemorrhage detection, 358
  - and genital mycoplasma infection, 167
- Primidone, interlaboratory variation for assays in plasma, 306
- Procainamide, interlaboratory variation for assays in plasma, 306
- Prolactin, radioimmunoassay kits for, comparison of (abstract), 646
- Propylene glycol, and elevated serum osmolality, 633
- Prostate-specific acid phosphatase, 944
- Protamine sulfate test, serial-dilution, for fibrin monomer detection, 405
- Protein
  - of platelet external membrane (abstract), 649
  - urinary, and interlaboratory comparison quality control program, 299
- Proteinuria
  - and epithelial foot-process effacement, 529
  - and subendothelial deposits in lupus nephritis, 186
- Protozoa, fecal, procedures for identification of, 371
- Pseudogonococcal ophthalmia neonatorum, 471; (abstract), 651
- Pseudomonads, susceptibility to gentamicin, 861
- Pseudomonas paucimobilis*, septicemia from, 882
- Pseudospirochetes, and erroneous diagnosis of leptospirosis, 459
- Pseudothrombocytopenia, from agglutinins, 1005
- Pyelonephritis, unique urinary case in (abstract), 651

## Q

- Quality control
  - and accuracy in interlaboratory programs, 260
  - in agar diffusion susceptibility tests, 365
  - blind sample analysis in, 156
  - and blood bank survey program, 352
  - and comparison of commercial digoxin kits, 341
  - and comparison of hemoglobin methodologies, 904
  - and comparison of prolactin radioimmunoassay kits (abstract), 646
  - and data analysis with programmable calculator, 207
  - evaluation of two methods in hematology, 624
  - in factor VIII assays, 346
  - in fecal parasite identification, 371
  - and fetomaternal hemorrhage detection, 358
  - in glucose measurements, 337
  - for gram-stained direct smears, 984
  - in hematology, 427, 624
  - in hemoglobin F quantitation, 421



interlaboratory variation for assays in plasma, 306  
 and laboratory estimations of serum and urinary phosphate, 326  
 for latex-fixation test, 591, 597  
 and methods for serum uric acid measurements, 330  
 and mononucleosis heterophil antibody tests, 363  
 and precision of radioligand assays, 320  
 proficiency testing in immunohematology in Canada, 559  
 report on programs of College of American Pathologists, 257  
 and stability of analytes in control serum, 274  
 and stability of liquid refrigerated control pool samples (abstract), 653  
 and state of the art precision data, 265  
 and statistical principles in clinical chemistry, 374  
 and survey of enzyme analyses by 450 laboratories, 285  
 and therapeutic drug monitoring interlaboratory survey program, 306  
 and urinary chemistry survey program of CAP, 299

## R

Radioallergosorbent test, in drug hypersensitivity (abstract), 650  
 Radioimmunoassay  
   of cortisol in serum, 146  
   of myoglobin in myocardial infarction, 137  
   of prolactin, comparison of kits for (abstract), 646  
 Receptors  
   complement, 674, 689  
   erythrocyte, 673  
   estrogen  
     in breast cancer, 564  
     and preparation of tissue samples for transport (letters), 128  
   Fc, 675, 689  
 Reference values, percentiles as, for laboratory data, 94  
 Reporting systems  
   for antimicrobial susceptibility test results, 864  
   computer-generated, for laboratory tests, 32  
   for microbiology laboratory, 841  
 Reticulocytes, quick and easy staining of, 1011  
 Rh immune globulin usage  
   and fetomaternal hemorrhage detection, 358  
   program for optimal utilization, 456  
 Rheumatoid factor  
   and quality control of latex-fixation test, 591, 597  
   quantitation by nephelometry, 432

## S

*Salmonella enteritidis*, late deoxyribonuclease activity of, 82  
 Sarcoidosis, immunohistochemical diagnosis of (abstract), 648  
 Sarcoma, immunoblastic  
   B-cell type, 666, 695  
   in graft-versus-host reaction, 713  
   T-cell type, 666, 695, 704  
 Screening tests  
   bacteriologic, of stool specimens (abstract), 646  
   for detection of hemoglobin S in neonates (letters), 251  
   for fetomaternal hemorrhage detection, 358  
   for hemoglobinopathies, 415, 421  
   macroscopic urinalysis in (letters), 1040  
   for streptococcal antibodies, 218  
   for typhoid carriers, fluorescent Vi antibody test in, 87  
 Sepsis diagnosis, by buffy coat micromethod, 437  
 Septicemia  
   from intravenous steel needles, 980  
   from *Klebsiella ozaenae*, 1033  
   from *Pseudomonas paucimobis*, 882  
 Sequestration, pulmonary, extralobar, 917  
 Serologic studies, of streptococci, 12

Sézary syndrome, 704, 726  
   multiparameter studies in, 739  
 Sickle cell disease  
   and detection of hemoglobin S in neonates (letters), 251  
   and erythrocytic ecdysis, 479  
   microcytosis with, 63  
 Sickle cell trait, distinguished from sickle cell thalassemia, 604  
 Silicosis, pulmonary, 871  
 Skin lesions, in graft-versus-host reaction, 719  
 Slide tests, for detection of group A streptococcal antibodies, 218  
 Smears  
   bone marrow  
     metastatic neuroblastoma in, 1008  
     and TdT immunofluorescence, 898  
   gram-stained direct, quality assurance of, 984  
 Sodium, urinary, and interlaboratory comparison quality control program, 299  
 Spleen, rupture in acute lymphocytic leukemia, 118  
 Squamous abnormalities, cervical intraepithelial, in DES-exposed progeny, 503  
 Staining  
   PAS staining in leukemia, and use of diastase (abstract), 652  
   for *Pneumocystis carinii* identification, 90  
   quality assurance of direct gram-stained smears, 984  
   of reticulocytes, quick and easy method for, 1011  
 Staphylococcal coagglutination, for group A streptococci identification, 463  
 Stat tests, turnaround time for (letters), 885  
 Statistical analysis  
   of method comparison data, 21  
   principles in clinical chemistry, 374  
 Steel needles, intravenous, semiquantitative culturing of, 980  
 Stool specimens  
   detection of fetal hemoglobin in (letters), 131  
   parasite identification in, survey of, 371  
 Streptococci  
   group A  
     detection of antigen in broth culture, 836  
     identification with staphylococcal coagglutination technic, 463  
     slide tests for detection of, 218  
     serologic studies of, 12  
 Streptomyces species, pericarditis from, 107  
 Sudden infant death syndrome, and postmortem vitreous humor chemistry (letters), 493  
 Suspension smears, of lung tissue in pneumocystis pneumonia, 90  
 Swab culture systems, comparison of, 968  
 Sweat tests in cystic fibrosis  
   comparison of two technics in, 142  
   differences between filter paper and gauze in, 211

## T

Terminal deoxynucleotidyl transferase  
   as cell marker, 679, 700  
   immunofluorescence in marrow smears, 898  
   in leukemias, 740, 741  
 Tests  
   for factor VIII activity, see Factor VIII  
   false-positive results with Monospot test, 807  
   for fibrin monomer detection, 405  
   for hemoglobin, see Hemoglobin  
   interpretive reporting of data in, 32  
   nephelometric assay for rheumatoid factor, 432  
   of normality, sensitivity of, 21  
   and percentiles as reference values for laboratory data, 94  
   quality control in, see Quality control  
   screening, see Screening tests

- slide tests for detection of group A streptococcal antibodies, 218
- sweat tests in cystic fibrosis, 142, 211
- turnaround time for stat tests (letters), 885
- Thalassemia, sickle cell, distinguished from sickle cell trait, 604
- Theophylline, interlaboratory variation for assays in plasma, 306
- Thrombocytopenia
  - macrothrombopathic, with Alport's syndrome, 111
  - pseudothrombocytopenia from agglutinins, 1005
- Thrombotic endocarditis, nonbacterial, with myxomatous degeneration of mitral valve, 489
- Thymic lymphomas, 703
- Thyroid-stimulating hormone, precision of assays for, 320
- Thyroxine, precision of assays for, 320
- TICAS analysis, of pulmonary cytology, 52
- Tn antigen, and polyagglutinability with AML, 1024
- Tocopherol, effect on HDL cholesterol, 848
- Toluidine blue O stain, for *Pneumocystis carinii*, inhibition by additives in diethyl ether (letters), 493
- Touch preparations, of lung tissue in pneumocystis pneumonia, 90
- Toxicology, and phencyclidine abuse, 795
- Toxoplasmosis, diagnosis with fine-structural analysis, 225
- Transfusions, platelet, and antileukocyte antibodies in refractoriness, 893
- Transport systems
  - aerobic and anaerobic, 968
  - for estrogen receptor assay in breast cancer (letters), 128
  - for herpes simplex virus type 2 cultures, 977
- Trematodes, fecal, procedures for identification of, 371
- Triiodothyronine, precision of assays for, 320
- Tumors, see Neoplasia
- Typhoid carriers, fluorescent antibody test of, 87

## U

- Ultrastructural studies, see Electron microscopy
- Urea nitrogen
  - stability of mean values in quality control serum, 274
  - urinary, and interlaboratory comparison quality control program, 299
- Ureaplasma urealyticum* infections, of placenta and fetus, 167
- Uremia, and glycogen in renal interstitial cells, 400
- Uric acid levels
  - in chronic neutrophilic leukemia, 233
  - laboratory estimations of, 330
  - stability of mean values in quality control serum, 274
- Uricase method, for serum uric acid measurements, 330
- Urine
  - chemistry survey program of College of American Pathologists, 299
  - creatinine excretion prediction from serum creatinine, 27
  - glucose measurements in, interlaboratory precision in, 337
  - laboratory estimations of phosphate levels, 326
  - macroscopic urinalysis as screening procedure (letters), 1040
  - myelin figures in gentamicin nephrotoxicity, 621
  - tests for blood in, ascorbic acid affecting, 468
  - unique cast in pyelonephritis (abstract), 651
  - xylose determinations with colorimetric micromethod (abstract), 653
- Uterus
  - cervical intraepithelial squamous lesions in DES-exposed progeny, 503
  - criteria for endometrial carcinoma in situ (letters), 130
  - endocervical colposcopic biopsy compared to cytologic findings (abstract), 645
  - ultrastructure of endometrial stromal foam cells, 628

## V

- Vaccinia virus inoculation, and postvaccination lymphadenopathy, 714
- Vagina
  - adenosis in DES-exposed progeny, and nuclear DNA of glandular cells, 515
  - intraepithelial squamous lesions in DES-exposed progeny, 503
- Vanillylmandelic acid, urinary, and interlaboratory comparison quality control program, 299
- Variability, in creatinine excretion, 27
- Vi antibody estimation, in typhoid carriers, 87
- Viruses
  - and altered T-cell reactions, 720
  - cytomegalovirus infection with immune-complex glomerulonephritis, 103
  - influenza virus vaccine
    - effects on T cells in Guillain-Barré syndrome (abstract), 650
    - live attenuated vaccines (letters), 252
  - and neoplasms with graft-versus-host reactions, 712
  - transport of cultures for herpes simplex virus type 2, 977
- Vitamin B<sub>12</sub>
  - levels in chronic neutrophilic leukemia, 233
  - precision of assays for, 320
- Vitamin C, and inhibition of tests for blood in urine, 468
- Vitamin E, effects on HDL cholesterol, 848
- Vitreous humor
  - postmortem chemistry in sudden infant death syndrome (letters), 493
  - potassium in, related to postmortem interval (abstract), 651

## W

- Von Willebrand factor, assays for, 991, 996

## X

- X-ray analysis, energy-dispersive, in pulmonary silicosis, 871
- Xylose determinations, colorimetric micromethod for (abstract), 653

## Y

- Yersinia enterocolitica*, isolation in pectin agar medium, 586

## Z

- Zeta sedimentation ratio, to monitor disease activity, 65

**Abstracts of Papers, Scientific Sessions of the Spring Program of the American Society of Clinical Pathologists, March 22-29, 1979, 645**

**Philip Levine Award Lecture: Current Status of Marrow Transplantation for Aplastic Anemia and Acute Leukemia, 887**

**Report on the Quality Assurance Programs of the College of American Pathologists, 257**

**Synopsis of the Minutes of the Meeting of the Members of the American Society of Clinical Pathologists at the Fall Meeting, Thursday, September 21, 1978, 495**

**Thirteenth Annual ASCP Basic Science Research Symposium: Immunobiologic Advances for Classification, Diagnosis, and Treatment of Malignant Lymphomas, 655**

**In Memoriam.**

Hamilton Rodell Fishback, Sr., M.D., 136

Edward A. Gall, M.D., 254

James A. Harshman, M.D., 255

**News and Notices, 126, 644**

**Errata, 1046**

# INDEX OF AUTHORS

- Adair, Robin M., 71  
 Adams, Lawrence R., 533  
 Agnantis, Niki T., 383  
 Agrell, Janet, 151  
 Alexander, Jane J., 1033  
 Alexander, Ronald, 521  
 Alpert, Bernard, 648  
 Al-Qadiry, Wiam, 132  
 Al-Saleem, Tahseen I., 132  
 Alvarado, Carla J., 980  
 Amram, Manuela, 591  
 Anderson, Paul J., 931  
 André, F., 252  
 Angevine, James M., 637  
 Antoniadis, Kristina, 647  
 Arimori, Shigeru, 452  
 Armstrong, W. R., 652  
 Asakura, Toshio, 251  
 Ashworth, C. T., 32  
 Ashworth, Robert D., 32  
 Assor, Dieter, 130  
 Azmid, Parvin H., 974
- Babu, Jegdish P., 199  
 Bailey, David, 571, 795  
 Bainton, D. F., 649  
 Baker, Catherine, 633  
 Baldwin, Michael L., 1024  
 Band, Jeffrey D., 980  
 Bannayan, George A., 111  
 Barna, B. P., 650  
 Barnett, Roy N., 101  
 Baron, Ellen J., 637  
 Barrasso, Christine, 1024  
 Barry, Arthur L., 578, 858, 864  
 Bartels, Peter H., 52  
 Bartlett, Marilyn S., 194  
 Bartlett, Raymond C., 984  
 Batsakis, John G., 257, 285, 326, 330, 337  
 Bauer, Richard C., 330  
 Beckala, Harold R., 151, 646  
 Becker, Paul T., 65  
 Beckstead, J. H., 649  
 Behrens, Joyce A., 410, 904  
 Bekeris, Leonas, 633  
 Bell, Martha E. A., 97  
 Bell, Thomas G., 649  
 Ben-Bassat, Mina, 186  
 Benjamin, Sanford P., 789  
 Bermes, Edward, 633  
 Bhargava, M. Krishna, 97  
 Bibbo, Marluce, 52, 163  
 Blalock, Judith A., 175  
 Blumberg, Joe M., 1043  
 Bollum, Frederick J., 898  
 Bolton, Merle R., 137  
 Bordin, Gerald M., 129  
 Bossart, Mattie L., 628  
 Bowen, J. Hartley, 586  
 Bowman, Harold E., 363  
 Bowman, Robert P., 991
- Boykin, Shirley F., 101  
 Braunstein, Herbert, 82  
 Bremmer, John E., 1028  
 Breslow, Alexander, 875  
 Brigati, David J., 648  
 Brilliance, Timothy W., 868  
 Brimhall, Bernadine, 1028  
 Broder, Samuel, 724  
 Brosious, Effie M., 421  
 Brossoit, Arthur D., 991  
 Brown, Garry D., 204  
 Brown, Warren P., 904  
 Brubaker, Daniel, 68  
 Buchanan, George R., 63  
 Bucher, William C., 65  
 Bukowski, Ronald, 246  
 Burkhardt, Robert T., 326, 337  
 Burnie, Katherine L., 559
- Callaway, Carey, 225  
 Cameron, Robert B., 90  
 Carstairs, Kelvin C., 559  
 Carter, J. B., 653  
 Catalano, Edward W., 652  
 Catovsky, Daniel, 736  
 Cavill, Ivor, 624  
 Cawley, Leo P., 134, 651  
 Cembrowski, George S., 21  
 Chambers, Charles H., 648  
 Chambers, Patrick W., 765  
 Chapel, Thomas, 84  
 Charache, Patricia, 473  
 Chelle, Carl, 651  
 Chen, May, 52  
 Cherchi, Maria, 736  
 Child, John S., 107  
 Chitkara, Yoginder K., 87  
 Cho, Sang Y., 617  
 Choi, Hong Y., 617  
 Choi, Ho-Soon H., 931  
 Christensen, Robert D., 608  
 Christopherson, William M., 254  
 Clare, Nanette M., 111, 652  
 Clements, James, 852  
 Coccia, Peter F., 746  
 Coe, John M., 74  
 Coleman, R. Marie, 12  
 Collins, Robert D., 699  
 Conover, William J., 21  
 Copeland, Bradley E., 146, 653  
 Corr, Robert M., 841  
 Costello, Christine, 736  
 Crabtree, Robert H., 789  
 Creegan, William J., 551  
 Crosby, Seth, 1011  
 Crosby, William H., 59  
 Croucher, Betty E. E., 559  
 Culbert, Steven J., 242  
 Cullen, Thomas C., 410  
 Cunningham, J. A., 1044  
 Czegledy-Nagy, Elinor, 167
- Dahlberg, Peggy W., 471, 651  
 Datiles, Therese B., 650  
 Davis, Bridgett K., 777  
 Degnan, Thomas, 5  
 Dekker, Andrew, 871  
 Demers, Laurence, 972  
 Deodhar, Sharad, 1, 222, 246, 614, 650, 651  
 Derench, Judith, 984  
 Deshpande, Vidya, 646  
 Detter, James C., 410, 904  
 Deveney, Linda B., 456  
 De Vries, G. Paul, 944  
 Dibbern, Paulette, 651  
 Dische, M. Renata, 167  
 Dixon, Jonathan A., 829  
 Djaldetti, Meir, 1018  
 Doberty, Anne, 653  
 Dobular, Kenneth, 571  
 Dugas, Doris J., 732  
 Durfee, Karen K., 836  
 Duró, J. C., 252  
 Dutcher, Thomas F., 71  
 Dutra, Frank R., 136
- Eberts, Thomas J., 653  
 Edberg, Stephen C., 591, 597  
 Ellis, Gregory H., 646, 653, 654  
 Ellis, Nancy S., 194  
 Esselman, Walter, 649  
 Estry, Suzanne, 649  
 Evatt, Bruce L., 996  
 Evers, Jane, 984  
 Ezer, Shaul, 559
- Fairbanks, Virgil F., 459  
 Fallis, Bruce D., 122  
 Farrell, Ruth E., 175  
 Farrington, Christopher L., 426  
 Fechner, Robert E., 628  
 Feldbruegge, Donald H., 952  
 Feldman, Jeroma M., 175  
 Fennessy, John J., 163  
 Fenton, John, 633  
 Ferrer-Roca, O., 252  
 Feusner, James H., 410  
 Fiederlein, Roger L., 956  
 Fisher, Edwin R., 909  
 Fisher, Janet, 624  
 Fitts, Charles T., 400  
 Florent, Gérard, 252  
 Foa, Robin, 736  
 Foerch, Jeffrey S., 651  
 Fong, Tseng P., 812  
 Forman, Donald T., 651  
 Forsman, Rodney W., 151  
 Franzini, Daisy A., 489  
 Fraser, Callum G., 885  
 Fraser, Martin D., 265  
 Freeman, V. Dean, 1013  
 Frenkel, Eugene P., 122  
 Friedland, Joan, 648
- Friedman, Shlomo, 251  
 Frist, Brian, 48  
 Fu, Yao S., 503, 515  
 Fuacett, James, 848  
 Fuchs, Peter C., 578
- Gaede, Janet T., 175  
 Gafter, Uzi, 1018  
 Gajl-Peczalska, Kazimiera J., 746  
 Gall, Eric P., 65  
 Gallen, William J., 648  
 Ganeshaguru, Kanagabasa, 736  
 Garvin, D. F., 649  
 Gates, Elena, 648  
 Gatewood, Conrad, 84  
 Gavan, Thomas L., 578  
 Geisinger, Kim R., 330  
 Gerlach, E. Hugh, 578  
 Geyer, Stanley J., 489  
 Gibson, Donald F., 904  
 Gilbert, Roger K., 257, 260  
 Glader, Bertil E., 63  
 Glasser, Lewis, 956  
 Gleichmann, Ernst, 708  
 Gleichmann, Helga, 708  
 Glenn, Guy C., 156, 299  
 Glick, Alan D., 699  
 Glick, Melvin R., 653  
 Glickman, Joel D., 597  
 Gogate, P., 650, 651  
 Gooch, W. M., 646  
 Gottfried, Eugene L., 415  
 Govindarajan, Sugantha, 246  
 Goyette, Richard E., 1008  
 Grannis, George F., 285  
 Greaves, Melvyn F., 736  
 Greer, James E., 444  
 Gröschel, Dieter, 215  
 Gura, Victor, 186  
 Gutman, S. I., 646
- Halbrecht, Isaac, 1018  
 Halie, M. Rudolf, 1005  
 Hall, James, 882  
 Hamilton, Stanley R., 650  
 Hammond, Denman, 746  
 Hansell, John R., 320, 341  
 Hansen, Leland, 142, 211  
 Hansen, Sharon L., 968  
 Hanzlick, Randy L., 76  
 Hargreaves, Hilary, 540  
 Harris, Eugene K., 374  
 Hartmann, William H., 390  
 Har-Zahav, Lea, 1018  
 Hassemer, David J., 952  
 Hatcher, William E., III, 94  
 Hathaway, James A., 131  
 Hathaway, Thomas K., 156  
 Haven, Guy T., 274, 320  
 Hawk, W. A., 647

- Hazaz, Bilha, 186  
 Head, David R., 991, 1008  
 Hefter, Lawrence G., 1040  
 Hellstrom, H. Richard, 777  
 Hendry, Phyllis A., 444  
 Henle, Gertrude, 807  
 Henle, Werner, 807  
 Hermann, William J., Jr., 848  
 Hill, Donald P., 97  
 Hillis, William D., 473  
 Hinton, Dennis M., 972  
 Hoffbrand, A. Victor, 736  
 Hoffman, Gary L., 952  
 Hoffman, Neil, 807  
 Hogan, Daniel L., 875  
 Hollick, Gary E., 868  
 Hollifield, John W., 390  
 Homburger, Henry A., 151  
 Hopfer, Roy L., 215  
 Horwitz, Charles A., 807  
 Hostetler, Mary, 654  
 Hough, Aubrey J., 390  
 Howard, Donald R., 647  
 Huber, Johannes, 1034  
 Huber, Thomas W., 225  
 Hughson, Michael D., 400  
 Huiges, Wupke, 1005  
 Hurwitz, Richard, 746  
 Hutcheon, David F., 473  
 Hymas, Peter G., 855  
  
 Inouye, Hiro, 452  
 Ishak, Kamal G., 648  
 Issa, Faiz S., 132  
  
 Jablokow, Victor R., 785  
 Jacobs, Barbara, 1  
 Jacobs, Janice, 650  
 Jaffe, Russell M., 468  
 James, Michael, 649  
 Jancikila, Anthony J., 886  
 Janosy, George, 736  
 Jatlow, Peter, 571  
 Jeffries, Charles, 84  
 Jekowsky, Eliot, 146  
 Jenkins, Rosemary, 926  
 Jobsis, Adriaan C., 944  
 Johnson, Cage S., 118  
 Jones, Clarence E., 432  
 Jones, K., 646  
 Jones, Richard T., 1028  
 Jones, Ronald N., 578, 651  
 Jormalainen, Seija, 437  
 Joshua, Henry, 186  
 Juel, Richard, 306  
 Jukkola, Alina F., 42, 529  
  
 Kagan-Hallet, Kathleen, 917  
 Kahan, Allayne V., 48  
 Kammer, Robert B., 858  
 Kanbour, Anisa I., 486  
 Kapadia, Silloo B., 486  
 Kaplan, Sandra, 68  
 Kass, Lawrence, 611  
  
 Kasten, Bernard L., 90  
 Katz, Sheila M., 621  
 Kavic, Thomas, 926  
 Keffer, J. H., 130  
 Kelly, Robert, 134  
 Keneklis, Theodore P., 898  
 Kennedy, Peter S., 1008  
 Kersey, John H., 746  
 Kimball, Douglas, 633  
 King, Joanna, 132  
 Kini, Rathnakar K., 653  
 Kinney, Evlin, 972  
 Kisker, C. Thomas, 405  
 Knowles, Robert C., 365  
 Kobernick, Sidney D., 444  
 Kochka, Frank E., 79  
 Kocoshis, Thomas A., 346  
 Kominos, Spyros D., 586  
 Komori, Kiyokazu, 452  
 Koranyi, Katalin, 974  
 Koss, Leopold G., 48  
 Kostiala, Anja A. I., 437  
 Kosunen, Timo U., 437  
 Kraus, Frederick T., 131  
 Krause, John R., 68, 817  
  
 LaBelle, James W., 471, 651  
 Laessig, Ronald H., 952  
 Lagios, Michael D., 648  
 Lambe, Dwight W., Jr., 12  
 Lappin, Terence R. J., 426  
 Larsen, Poul-Erik, 493  
 Larsh, Howard W., 868  
 Lawrence, Linda, 468  
 Lawson, Noel S., 257, 274  
 Layman, Herbert, 963  
 Leavelle, D. E., 646  
 LeBien, Tucker W., 746  
 LeFrock, Jack L., 199  
 Leikin, Sanford, 746  
 Lessman, S., 653  
 Lewinski, Uri H., 1018  
 Lewis, Jay F., 1033  
 Ley, Dorothy C. H., 559  
 Lien, York Y., 5  
 Lifschitz, Meyer D., 111  
 Lindner, Luther E., 651  
 Lindsey, Kathryn D., 974  
 Lipworth, Leslie, 1000  
 Loon, Jimmy, 732  
 Lu, Chien-tai, 163  
 Lukes, Robert J., 656, 657  
 Lupovitch, Aaron, 841  
  
 MacLowry, James D., 468  
 MacPherson, Bruce R., 893  
 Maddox, M., 650  
 Maeda, Koichi, 653  
 Maki, Dennis G., 980  
 Manhoff, Louis, Jr., 652  
 Marchitelli, Roberto, 597  
 Markowitz, Robert L., 597  
 Marmer, Daniel J., 991  
 Marrack, David, 647  
  
 Marymont, Jesse H., Jr., 836  
 Massion, Charles G., 285  
 Matheson, John, 142  
 Matsuda, Yasuo, 1  
 Matsumoto, Teru, 621  
 Matthieu, Donald E., Jr., 463  
 Mattson, Joan, 649  
 Mauer, Alvin M., 753  
 Maxwell, Kameron W., 432  
 McBride, John A., 559  
 McConnell, Thomas H., 32  
 McConville, John H., 968  
 McCreadie, Samuel R., 648  
 McManus, Albert T., 230  
 McManus, Joseph F. A., 400  
 Meijer, A. E. F. Hugo, 944  
 Memminger, Joseph J., III, 841  
 Menemeyer, Ralph, 645  
 Merrett, John D., 426  
 Metting-Scherphuis, Hilda E., 1005  
 Meyer, Donald L., 130  
 Meyer, John S., 564  
 Meyer, Leo M., 604  
 Middleton, Peter J., 1034  
 Miller, Denis R., 746  
 Miller, Frederick E., 79  
 Miller, Larry, 597  
 Minard, Barbara J., 134, 651  
 Moeder, M., 650  
 Moehring, Constance, 821  
 Montiel, Milka M., 111  
 Moore, Thomas D., 274, 365  
 Moretta, Frank L., 529  
 Morris, Jonathan E., 977  
 Mowjood, Muhammad, 79  
 Mullen, Sanford, 352  
 Munster, Donald, 611  
 Murphy, Jon M., 885  
 Murphy, Sharon B., 753  
 Murphy, William M., 42, 529  
 Murray, James F., 559  
 Muschenheim, Frederick, 128  
 Myerowitz, Richard L., 926, 963  
 Myhre, Byron A., 352  
  
 Nelson, Maurice G., 426  
 Nesbit, Mark E., 746  
 Nielsen, Carl R., 32  
 Nieweg, Hendrik O., 1005  
 Nochumson, Samuel, 604  
 Nogué, S., 252  
 Nomoto, Yasuo, 452  
  
 O'Brien, Maureen, 736  
 Oei, Tjien O., 646, 654  
 Officer, Janet, 984  
 Okafor, Laurence A., 812  
 O'Kell, Richard T., 1041  
 O'Neill, Martin, 972  
 Ong, Ying Y., 101  
 Orenstein, Jan M., 875  
 Ortigoza, Corpus O., 647  
 Oxley, Dwight K., 137  
 Ozawa, Takeshi, 103  
  
 Page, David L., 390  
 Palekar, Alka S., 909  
 Palkuti, Harlene S., 204  
 Panke, Thomas W., 230  
 Parker, John W., 670  
 Parr, Grant, 972  
 Pearce, Elizabeth, 736  
 Pechet, Liberto, 1000  
 Penberthy, Lloyd A., 885  
 Penn, Duna, 71  
 Penn, Gerald, 800, 807  
 Perakash, Arundhati, 132  
 Perkins, Herbert A., 855  
 Pertschuk, Louis P., 648  
 Petersen, Christine, 134  
 Petursson, Sigurdur, 963  
 Piesler, Peter C., 128, 875  
 Pinkerton, Peter H., 559  
 Pinkus, Geraldine S., 540  
 Pittman, Sally, 736  
 Pitts, L. L., 551  
 Pohl, M. A., 651  
 Polesky, Herbert F., 352, 358  
 Prober, Charles G., 977  
 Propper, Richard D., 63  
 Pryor, Louis R., 1013  
  
 Quall, Charles O., 861  
 Quantz, Marie C., 559  
 Quinn, Patricia A., 167  
  
 Ramadei, William A., 861  
 Ramos, C., 650  
 Ramsey, Rosemary, 996  
 Rance, C. Phillips, 1034  
 Reagan, James W., 503, 515  
 Reale, Frank R., 52  
 Rebuck, John W., 653  
 Reece, G. John, 871  
 Reyes, Cesar V., 785  
 Reynoso, Gustavo, 852  
 Rice, Cindy A., 1000  
 Richart, Ralph M., 503, 515  
 Ricketts, Christopher, 624  
 Ridolfi, Ren L., 1024  
 Ries, C. A., 649  
 Rippey, John H., 363  
 Robertson, Norma A., 415  
 Roche, Jeffrey C., 473  
 Roe, Martha H., 218  
 Roodman, S. T., 650  
 Rosen, Paul P., 383  
 Rosen, Peter J., 118  
 Rosen, Yale, 648  
 Rosenbaum, Jerald M., 260  
 Rosenfeld, Joseph, 186  
 Ross, John W., 265  
 Rossing, Robert G., 94  
 Rothstein, Gerald, 608  
 Roub, Leslie W., 871  
 Rousseau, Robert J., 432  
 Roy, Shane, III, 42  
 Rucknagel, Donald L., 653  
 Rudicel, Max W., 255  
 Russell, William, 655



- Sacks, Harry, 882  
 Sacks, Joel G., 645  
 Saeed, Sheikh M., 653  
 Said, Jonathan W., 540  
 Sakai, Hideto, 452  
 Sample, M., 646  
 Sample, Richard H. B., 653  
 Sanders, Gerard T. B., 944  
 Sarachek, Alvin, 836  
 Savage, Richard A., 614, 645, 789  
 Schell, Ronald F., 199  
 Schileru, Rodica E., 84  
 Schmid, Al, 468  
 Schmidt, Robert M., 421  
 Schmitz, Thomas H., 812  
 Schneider, Rose G., 1028  
 Schoenknect, Fritz D., 858  
 Scholtyssek, Erich, 225  
 Schor, Joel, 79  
 Schreiber, Hans, 52  
 Schumacher, Harold R., 551, 898  
 Schumann, G. Berry, 645, 1041, 1042  
 Schwartz, Elias, 251  
 Schwarz, Manfred, 649  
 Schwinn, Charles P., 765  
 Searcy, Ronald L., 886  
 Sebek, Bruce A., 789  
 Sebring, Elizabeth S., 358  
 Segura, F., 252  
 Selinger, Melvin, 591  
 Senhauser, Donald A., 76  
 Serjeant, Beryl, 251  
 Serjeant, Graham, 251  
 Settles, Oswald P., 493  
 Shabatai, Fiorella, 1018  
 Shackney, Stanley E., 756  
 Shaddock, John A., 640  
 Shadomy, Smith, 858  
 Shaeffer, Charlie W., 137  
 Shakrai, Matityahu, 59  
 Shanley, John D., 107  
 Sharp, James W., 551  
 Sheehan, William W., 118  
 Sheibani, Khalil, 222, 645, 647  
 Sheiko, Mark C., 326, 337  
 Sheiner, Lewis B., 27  
 Shelburne, John D., 175  
 Sherris, John C., 858  
 Shih, Tzu-Bi, 1028  
 Shirey, Earl, 1  
 Shonnard, John W., 777  
 Shorey, James, 122  
 Silver, Meredith M., 1034  
 Silverstein, Emanuel, 648  
 Simon, Nicolas V., 456  
 Singer, Jacques M., 591, 597  
 Skramstad, Karen, 756  
 Slasky, Simon, 926  
 Slaunwhite, David, 852  
 Slob, Ada W., 944  
 Slotnick, Irving J., 882  
 Smith, Clark M., 479  
 Smith, James W., 194, 371  
 Smith, John P., 836  
 Smith, Michael T., 225  
 Smith, Thomas F., 459  
 Snyder, Kim, 107  
 Soloway, Henry B., 74  
 Sommers, Sheldon C., 130  
 Soriano, E., 252  
 Spark, Ronald P., 471, 651  
 Spebar, Michael J., 230  
 Spector, Gary, 242  
 Spector, Harvey, 647  
 Spinnler, Polly A., 645  
 Spjut, Harlan J., 628  
 Stallings, Richard A., 463  
 Starkweather, William H., 886  
 Stass, Sanford A., 551, 898  
 Steiner, Terrence, 652  
 Stevens, Sue C., 564  
 Stewart, John A., 103  
 Stocker, J. Thomas, 917  
 Stolc, Viktor, 817  
 Straus, Francis H., II, 163  
 Stromeyer, F. Wayne, 648  
 Sturgess, Jennifer M., 167  
 Sturmer, William Q., 493  
 Sufjan, Shekeeb, 621  
 Sulzer, Alexander J., 225  
 Sun, Tsieh, 5  
 Sundstrom, Walter, 637  
 Sychra, Jaroslav J., 52  
 Taft, Priscilla D., 533  
 Tammes, Arnold R., 1040  
 Tang, Thomas T., 648  
 Tavassoli, Mehdi, 59  
 Taylor, Clive R., 657, 687  
 Telford, Van Q., 640  
 Tetreault, Janice, 984  
 Thomas, E. Donnall, 887  
 Thomas, William, 812  
 Thornsberry, Clyde, 578, 858  
 Tiarks, Cheryl Y., 1000  
 Timmons, Richard F., 968  
 Tolliver, Peggy R., 218  
 Tolnay, G., 646  
 Tomasulo, Michael, 82  
 Toren, Eric C., Jr., 21  
 Townsend, Duane E., 503, 515  
 Trainer, Thomas D., 146  
 Triplett, Douglas A., 346  
 Tsai, Cheng C., 646, 650  
 Tsuji, Kimiyoshi, 452  
 Tubbs, Raymond R., 222, 246, 614, 645, 647, 789  
 Tuggey, Robert L., 852  
 Ubelaker, John, 640  
 Uchiyama, Takashi, 724  
 Urquhart, Alfred E., 87  
 Valenzuela, Rafael, 222, 246, 614, 651  
 Van den Tweel, Jan G., 732  
 Van der Schans, Gerda S., 1005  
 VanDillen, Nancy, 564  
 Van Elven, Ferry, 708  
 Van Schoonhoven, Peter, 352  
 Variakojis, Daina, 163  
 Veenhoven, Willen A., 1005  
 Viela, Ione, 142, 211  
 Virgilio, Lawrence A., 456  
 Vye, Malcolm V., 651  
 Wagenblast, Howard W., 871  
 Waldmann, Thomas A., 724  
 Waldron, James A., 699  
 Walker, Richard, 352  
 Wall, Barbara, 415  
 Walpole, Brian, 624  
 Ward, Karen, 848  
 Ward, Patrick C. J., 479, 807  
 Ward, Samuel, 972  
 Warwick, Warren J., 142, 211  
 Washington, John A., 858  
 Washington, John A., III, 134, 459  
 Wasilaskas, Benedict L., 463  
 Watson, Carolyn W., 645  
 Watts, John C., 90  
 Weinberg, Michael N., 122  
 Weisbrot, Irwin M., 233, 652  
 Weisburger, William R., 473  
 Wells, Samuel A., Jr., 175  
 Wende, Reuben D., 647  
 Westerman, Maxwell P., 812  
 Westgard, James O., 21, 952  
 Westphal, Robert G., 893  
 Wetzel, William, 521  
 Wheeler, Lawrence A., 27  
 Whitcomb, Clarence C., 207  
 White, James G., 479  
 White, Wilma L., 564  
 Whiteside, Theresa L., 829  
 Wied, George L., 52  
 Wiley, Marcia, 129  
 Wilkowske, Conrad J., 459  
 Williams, Arthur V., 400  
 Williams, Lowell L., 800  
 Williams, Paul R., 71  
 Williamson, Manley D., 131  
 Wold, Arlo D., 459  
 Wood, Donald E., 559  
 Woolfrey, Bert F., 861  
 Wynn, Jonathan, 972  
 Yam, Lung T., 886  
 Yardley, John H., 473  
 Yeager, Anne S., 977  
 Yee, Robert B., 963  
 Yeip, M., 651  
 Yogev, Ram, 133  
 You, W. Y., 233, 652  
 Youness, Ehsan, 242  
 Zaatari, Ghazi S., 650  
 Zelis, Robert, 972  
 Zern, Ruthann T., 175



## NOTICE TO COPIERS

*The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., P.O. Box 765, Schenectady, New York 12301, for copying beyond that permitted by Sections 107 or 108 of the U. S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.*

# AMERICAN JOURNAL OF CLINICAL PATHOLOGY

OFFICIAL PUBLICATION OF AMERICAN SOCIETY OF CLINICAL PATHOLOGISTS

## BOARD OF EDITORS

JOHN G. BATSAKIS  
MYRTON F. BEELER  
RICHARD D. BRUNNING  
REX B. CONN, JR.  
BRADLEY E. COPELAND  
ANTHONY N. D'AGOSTINO  
SHARAD DEODHAR  
C. TERRENCE DOLAN  
J. ROGER EDSON  
FRANZ M. ENZINGER  
BLAISE E. FAVARA  
EDWIN R. FISHER  
MICHAEL B. GRAVANIS  
L. RUTH GUY  
MERYL H. HABER

ROBERT J. HARTSOCK  
CHARLES S. HIRSCH  
GEORGE C. HOFFMAN  
ELAINE S. JAFFE  
JOHN A. KOEPKE  
ARTHUR F. KRIEG  
CHANG LING LEE  
JESSE H. MARYMONT, JR.  
JOHN M. MATSEN  
ROBERT W. McDIVITT  
WILLIAM A. MEISSNER  
AZORIDES R. MORALES  
BYRON A. MYHRE  
ROBERT M. NAKAMURA  
ALAN B. NG

CHARLES A. OWEN, JR.  
DWIGHT K. OXLEY, III  
WALDEMAR A. PALUTKE  
GERALD M. PENN  
ALLEN L. PUSCH  
JOHN W. REBUCK  
JUAN ROSAI  
KENNETH J. RYAN  
JERALD R. SCHENKEN  
ROBERT M. SCHMIDT  
WILLIAM W. SHEEHAN  
F. WILLIAM SUNDERMAN, JR.  
JOHN A. WASHINGTON, II  
HARRY F. WEISBERG  
GEORGE D. WILNER

**FRANK VELLIOS—Editor-in-Chief**

Department of Pathology  
University of Oregon Health Sciences Center  
Portland, Oregon 97201

**PUBLISHED BY J. B. LIPPINCOTT COMPANY • PHILADELPHIA • TORONTO**

All change of address notices for the membership listing should be mailed to American Society of Clinical Pathologists, Attn. AJCP Circulation Dept., 2100 W. Harrison Street, Chicago, Ill. 60612. Correspondence regarding nonmember subscriptions should be sent to Journal Fulfillment Department, Lippincott/Harper, 2350 Virginia Avenue, Hagerstown, Maryland 21740. Correspondence regarding nonmember subscriptions in Japan, including inquiries about subscription rates and subscription orders, should be sent to Woodbell Scope, 11-11, Shoto 2-chome, Shibuya-ku, Tokyo 150, Japan.

AMERICAN JOURNAL OF CLINICAL PATHOLOGY (ISSN 0002-9173) is published monthly by the American Society of Clinical Pathologists. *Publication office:* J. B. Lippincott Company, East Washington Square, Philadelphia, PA 19105. *Subscription orders and changes of address:* Journal Fulfillment Department, Lippincott/Harper, 2350 Virginia Avenue, Hagerstown, MD 21740. *Subscription rates:* United States, U. S. Possessions, one year, \$40.00; all other countries except Japan, one year \$49.00. Single copies \$5.00. *Subscription orders & correspondence about subscriptions in Japan* should be sent to Woodbell Scope, 11-11, Shoto 2-chome, Shibuya-ku, Tokyo 150, Japan. Printed in the U. S. A. © Copyright 1979 by the American Society of Clinical Pathologists. Second class postage paid at Hagerstown, Maryland, and additional mailing offices.

# TABLE OF CONTENTS

JULY TO DECEMBER, 1979

Number 1, July 1979

Cell-mediated Cytotoxicity to Cardiac Cells of Lymphocytes from Patients with Primary Myocardial Disease. BARBARA JACOBS, YASUO MATSUDA, SHARAD DEODHAR, AND EARL SHIREY .....	1
Study of Gammopathies with Immunofixation Electrophoresis. TSIEH SUN, YORK Y. LIEN, AND THOMAS DEGNAN .....	5
Serologic Studies of <i>Streptococcus intermedius</i> , <i>Streptococcus constellatus</i> , and <i>Streptococcus morbillorum</i> by Crossed Immunoelectrophoresis. R. MARIE COLEMAN AND DWIGHT W. LAMBE, JR. ....	12
Statistical Analysis of Method Comparison Data. Testing Normality. GEORGE S. CEMBROWSKI, JAMES O. WESTGARD, WILLIAM J. CONOVER, AND ERIC C. TOREN, JR. ....	21
Clinical Estimation of Creatinine Clearance. LAWRENCE A. WHEELER AND LEWIS B. SHEINER .....	27
Algorithm-derived, Computer-generated Interpretive Comments in the Reporting of Laboratory Tests. THOMAS H. MCCONNELL, C. T. ASHWORTH, ROBERT D. ASHWORTH, AND CARL R. NIELSEN .....	32
Nephrotic Syndrome with Mesangial-cell Proliferation in Children—A Distinct Entity? WILLIAM M. MURPHY, ALINA F. JUKKOLA, AND SHANE ROY, III .....	42
Comparison of the Diagnostic Values of Biopsies of the Pleura and Cytologic Evaluation of Pleural Fluids. BRIAN FRIST, ALLAYNE V. KAHAN, AND LEOPOLD G. KOSS .....	48
Differentiation by TICAS Analysis of Cell Populations of Tracheal Aspirates from Hamsters with Squamous-cell Carcinoma. FRANK R. REALE, PETER H. BARTELS, MARLUCE BIBBO, MAY CHEN, HANS SCHREIBER, JAROSLAV J. SYCHRA, AND GEORGE L. WIED .....	52
Brief Scientific Reports:	
Cytochemical Diagnosis of Acute Myelomonocytic Leukemia. MEHDI TAVASSOLI, MATITYAHU SHAKLAI, AND WILLIAM H. CROSBY .....	59
Microcytosis Associated with Sickle Cell Anemia. BERTIL E. GLADER, RICHARD D. PROPPER, AND GEORGE R. BUCHANAN .....	63
The Zeta Sedimentation Ratio (ZSR) as the Routine Monitor of Disease Activity in a General Hospital. WILLIAM C. BUCHER, ERIC P. GALL, AND PAUL T. BECKER .....	65
Comparison of Stainable Iron in Aspirated and Needle-biopsy Specimens of Bone Marrow. JOHN R. KRAUSE, DANIEL BRUBAKER, AND SANDRA KAPLAN .....	68
Comparison of Hematocrit Determinations by Microhematocrit and Electronic Particle Counter. DUNA PENN, PAUL R. WILLIAMS, THOMAS F. DUTCHER, AND ROBIN M. ADAIR .....	71
Computer-assisted Heparin Monitoring. JOHN M. COE AND HENRY B. SOLOWAY .....	74
Subclinical Hemolytic Disease of the Newborn due to Anti-e. RANDY L. HANZLICK AND DONALD A. SENHAUSER .....	76
Small-colony Forms of Enteric Bacteria after Exposure to Aminoglycosides. MUHAMMAD MOWJOOD, FREDERICK E. MILLER, JOEL SCHOR, AND FRANK E. KOCKA .....	79
Late Deoxyribonuclease Activity of <i>Salmonella enteritidis</i> . MICHAEL TOMASULO AND HERBERT BRAUNSTEIN .....	82
Effect of Medium Temperature on Recovery of Gonococci. THOMAS CHAPEL, CHARLES JEFFRIES, CONRAD GATEWOOD, AND RODICA E. SCHILERU .....	84
Fluorescent Vi Antibody Test in the Screening of Typhoid Carriers. YOGINDER K. CHITKARA AND ALFRED E. URQUHART .....	87
<i>Pneumocystis carinii</i> Pneumonia. An Approach to Rapid Laboratory Diagnosis. ROBERT B. CAMERON, JOHN C. WATTS, AND BERNARD L. KASTEN .....	90
Percentiles as Reference Values for Laboratory Data. ROBERT G. ROSSING AND WILLIAM E. HATCHER, III .....	94
Lymphatic Invasion in Pigmented Nevi. MARTHA EMMA ADELIN BELL, DONALD PATRICK HILL, AND M. KRISHNA BHARGAVA .....	97
Laboratory Suggestions:	
You Can Draw Blood from the "IV Arm" below the Intravenous Needle if You Put a Tourniquet in Between. YING YING ONG, SHIRLEY F. BOYKIN, AND ROY N. BARNETT .....	101
Case Reports:	
Immune-complex Glomerulonephritis Associated with Cytomegalovirus Infection. TAKESHI OZAWA AND JOHN A. STEWART .....	103
Chronic Pericarditis due to a <i>Streptomyces Species</i> . JOHN D. SHANLEY, KIM SNYDER, AND JOHN S. CHILD .....	107
Alport's Syndrome Associated with Macrothrombopathic Thrombocytopenia. NANETTE MANHOFF CLARE, MILKA M. MONTIEL, MEYER D. LIFSCHITZ, AND GEORGE A. BANNAYAN .....	111

## TABLE OF CONTENTS

A.J.C.P. • December 1979

Acute Lymphocytic Leukemia Manifesting as Splenic Rupture. CAGE S. JOHNSON, PETER J. ROSEN, AND WILLIAM W. SHEEHAN .....	118
Nodular Regenerative Hyperplasia of the Liver in a Case of Myelofibrosis with Extramedullary Hematopoiesis and Secondary Portal Venous Hypertension. JAMES SHOREY, MICHAEL N. WEINBERG, EUGENE P. FRENKEL, AND BRUCE D. FALLIS .....	122
News and Notices: .....	126
Letters to the Editor:	
Estrogen Receptor. PETER C. PIESLOR .....	128
The Author's Reply. FREDERICK MUSCHENHEIM .....	128
Estrogen-receptor Assay. GERALD M. BORDIN AND MARCIA WILEY .....	129
The Author's Reply. J. H. KEFFER .....	130
Estrogen-receptor Assay. DIETER ASSOR AND DONALD L. MEYER .....	130
Carcinoma <i>in Situ</i> of the Endometrium. SHELDON C. SOMMERS .....	130
The Author's Reply. FREDERICK T. KRAUS .....	131
Detection of Fetal Hemoglobin in Stool Specimens and Differentiation from Maternal Hemoglobin. JAMES A. HATHAWAY AND MANLEY D. WILLIAMSON .....	131
Variable Responses of Whole Blood to Heparin: Hematocrit as an Important Factor. ARUNDHATI PERKASH .....	132
The Immunoselection Technic in Laboratory Diagnosis of Alpha Heavy-chain Disease. TAHSEEN I. AL-SALEEM, W'AM AL-QADIRY, FAIZ S. ISSA, AND JOANNA KING .....	132
The Taxonomy and Antimicrobial Susceptibility of <i>Haemophilus</i> Species in Clinical Specimens. RAM YOGEV .....	133
The Author's Reply. JOHN A. WASHINGTON II .....	134
Effect of Oral Contraceptives on Antithrombin III Measurement. CHRISTINE PETERSEN, ROBERT KELLY, BARBARA MINARD, AND LEO P. CAWLEY .....	134
In Memoriam:	
Hamilton Rodell Fishback, Sr., M.D. FRANK R. DUTRA .....	136

## Number 2, August 1979

Myoglobin in Myocardial Infarction. Results in a Coronary-care-unit Population. DWIGHT K. OXLEY, MERLE R. BOLTON, AND CHARLIE W. SHAEFFER .....	137
Comparison of the Chloride Electrode and Gravimetric Chloride Titration Sweat Tests. WARREN J. WARWICK, LELAND HANSEN, IONE VIELA, AND JOHN MATHESON .....	142
Comparison of an Automated Radioimmunoassay Method and a Competitive Protein-binding Method for Evaluation of Serum Cortisol. ELIOT JEKOWSKY, THOMAS D. TRAINER, AND BRADLEY E. COPELAND .....	146
Evaluation of Commercial Enzyme Reagent Kits by Use of a Semiautomated Chemistry Analyzer. HAROLD R. BECKALA, JANET AGRELL, RODNEY W. FORSMAN, AND HENRY A. HOMBURGER .....	151
Quality Control by Blind Sample Analysis. GUY C. GLENN AND THOMAS K. HATHAWAY .....	156
Transcatheter Bronchial Brush and Forceps Biopsies. Histologic Evaluation. DAINA VARIAKOJIS, FRANCIS H. STRAUS, II, JOHN J. FENNESSY, CHIEN-TAI LU, AND MARLUCE BIBBO .....	163
Genital Mycoplasma Infection. Intrauterine Infection: Pathologic Study of the Fetus and Placenta. M. RENATE DISCHE, PATRICIA A. QUINN, ELINOR CZEGLEDY-NAGY, AND JENNIFER M. STURGESS .....	167
Deficiency of Dopamine- $\beta$ -hydroxylase. A New Mechanism for Normotensive Pheochromocytomas. JEROME M. FELDMAN, JUDITH A. BLALOCK, RUTHANN T. ZERN, JOHN D. SHELBURNE, JANET T. GAEDE, RUTH E. FARRELL, AND SAMUEL A. WELLS, JR. ....	175
Lupus Nephritis. Electron-dense and Immunofluorescent Deposits and Their Correlation with Proteinuria and Renal Function. MINA BEN-BASSAT, JOSEPH ROSENFELD, HENRY JOSHUA, BILHA HAZAZ, AND VICTOR GURA .....	186
Assay for Yeast Susceptibility to 5-Fluorocytosine and Amphotericin B in a Frozen Microtiter System. NANCY S. ELLIS, MARILYN S. BARTLETT, AND JAMES W. SMITH .....	194
Evaluation of Ten Anaerobic Blood Culture Media. RONALD F. SCHELL, JEGDISH P. BABU, AND JACK L. LE FROCK .....	199
Brief Scientific Reports:	
A Precision Study of A Photo-optical Factor VIII Assay Technic. GARRY D. BROWN AND HARLENE S. PALKUTI .....	204
Analyzing Large Numbers of Data with A Programmable Calculator. Technic and Applications. CLARENCE C. WHITCOMB .....	207
Comparison of the Errors Due to the Use of Gauze and the Use of Filter Paper in the Gravimetric Chloride Titration Sweat Test. WARREN J. WARWICK, IONE VIELA, AND LELAND G. HANSEN .....	211



Detection by Counterimmunoelectrophoresis of Anti-Candida Precipitins in Sera from Cancer Patients. ROY L. HOPFER AND DIETER GRÖSCHEL .....	215
Comparison of Two Slide Tests for Detection of Group A Streptococcal Antibodies. PEGGY R. TOLLIVER AND MARTHA H. ROE .....	218
Reliability of Immunofluorescence of Renal Tissue Obtained at Autopsy. KHALIL SHEIBANI, RAYMOND R. TUBBS, RAFAEL VALENZUELA, AND SHARAD DEODHAR .....	222
Case Reports:	
Diagnosis of Toxoplasmosis by Electron Microscopic Fine-structural Analysis. ALEXANDER J. SULZER, ERICH SCHOLTYSECK, CAREY CALLAWAY, MICHAEL T. SMITH, AND THOMAS W. HUBER .....	225
Infection of a Burn Wound by <i>Aspergillus niger</i> . Gross Appearance Simulating Ecthyma Gangrenosa. THOMAS W. PANKE, ALBERT T. MC MANUS, AND MICHAEL J. SPEBAR .....	230
Chronic Neutrophilic Leukemia. Report of Two Cases and Review of the Literature. WOO YOU AND IRWIN M. WEISBROT .....	233
Acute Lymphoblastic Leukemia Followed by Acute Granulocytic Leukemia in a Pediatric Patient. GARY SPECTOR, EHSAN YOUNESS, AND STEVEN J. CULBERT .....	242
IgD Myeloma. Report of a Case with Unusual Clinical and Immunologic Features. RAFAEL VALENZUELA, SUGANTHA GOVINDARAJAN, RAYMOND TUBBS, SHARAD DEODHAR, AND RONALD BUKOWSKI .....	246
Letters to the Editor:	
Neonatal Screening for Sickle Hemoglobin. GRAHAM SERJEANT AND BERYL SERJEANT .....	251
The Authors' Reply. SHLOMO FRIEDMAN, TOSHIO ASAKURA, AND ELIAS SCHWARTZ .....	251
Studies with Live Attenuated Influenza Vaccines. GÉRARD FLORENT AND F. ANDRÉ .....	252
Systemic Fibrosclerosis with Intracranial Involvement and Pancreatic Islet Cell Adenomas. O. FERRER-ROCA, F. SEGURA, S. NOGUÉ, J. C. DURÓ AND E. SORIANO .....	252
In Memoriam:	
Edward A. Gall, M.D. WILLIAM M. CHRISTOPHERSON .....	254
James A. Harshman, M.D. MAX W. RUDICEL .....	255

## Number 2 (S), Supplement to August 1979

## Report on the Quality Assurance Programs of the College of American Pathologists

Report on the Quality Assurance Programs of the College of American Pathologists	
Introduction to the Report on the Quality Assurance Programs of the College of American Pathologists, 1979. JOHN G. BATSAKIS, NOEL S. LAWSON, AND ROGER K. GILBERT .....	257
Accuracy in Interlaboratory Quality Control Programs. ROGER K. GILBERT AND JERALD M. ROSENBAUM .....	260
Analytical Clinical Laboratory Precision. State of the Art for Twenty-nine Analytes. JOHN W. ROSS AND MARTIN D. FRASER .....	265
Stability of Mean Values of Organic Analytes in Lyophilized Quality Control Serum. A Study Utilizing Data from the Quality Assurance Service (QAS) Program of the College of American Pathologists. GUY T. HAVEN, NOEL S. LAWSON, AND THOMAS D. MOORE .....	274
The 1978 College of American Pathologists Survey of Analyses of Five Serum Enzymes by 450 Laboratories. GEORGE F. GRANNIS, CHARLES G. MASSION, AND JOHN G. BATSAKIS .....	285
Evolution of the Urinary Chemistry Survey Program of the CAP. GUY C. GLENN .....	299
The 1978 College of American Pathologists Therapeutic Drug Monitoring Inter-laboratory Survey Program. RICHARD JUEL .....	306
Changes in Level of Precision of Common Ligand Assays during a Seven-year Interval. JOHN R. HANSELL AND GUY T. HAVEN .....	320
Clinical Laboratory Estimations of Serum and Urinary Phosphate. ROBERT T. BURKHARDT, MARK C. SHEIKO, AND JOHN G. BATSAKIS .....	326
Serum Uric Acid. KIM R. GEISINGER, JOHN G. BATSAKIS, AND RICHARD C. BAUER .....	330
Glucose Measurements. A 1977 CAP Survey Analysis. MARK C. SHEIKO, ROBERT T. BURKHARDT, AND JOHN G. BATSAKIS .....	337
A Laboratory Intercomparison of Commercial Digoxin Kits. JOHN R. HANSELL .....	341
CAP Survey Results for Factor VIII Assays (1977-1978). THOMAS A. KOCOSHSIS AND DOUGLAS A. TRIPLETT .....	346
The Comprehensive Blood Bank Survey Program of the College of American Pathologists—1977. BYRON A. MYHRE, SANFORD MULLEN, HERBERT F. POLESKY, PETER VAN SCHOONHOVEN, AND RICHARD WALKER .....	352

## TABLE OF CONTENTS

A.J.C.P. • December 1979

Comparison of Fetomaternal Hemorrhage Detection Methods and Rh Immune Globulin Usage. ELIZABETH S. SEBRING AND HERBERT F. POLESKY .....	358
Infectious Mononucleosis Test Performance on CAP Survey Specimens. JOHN H. RIPPEY AND HAROLD E. BOWMAN .....	363
Quality Control of Agar Diffusion Susceptibility Tests. Data from the Quality Assurance Service Microbiology Program of the College of American Pathologists. ROBERT C. KNOWLES AND THOMAS D. MOORE .....	365
Identification of Fecal Parasites in the Special Parasitology Survey of the College of American Pathologists. JAMES W. SMITH .....	371
Statistical Principles Underlying Analytic Goal-setting in Clinical Chemistry. EUGENE K. HARRIS .....	374

## Number 3, September 1979

Mammary Carcinoma with Osteoclast-like Giant Cells. A Study of Eight Cases with Follow-up Data. NIKI T. AGNANTIS AND PAUL PETER ROSEN .....	383
Prognostic Factors in Adrenal Cortical Tumors. A Mathematical Analysis of Clinical and Morphologic Data. AUBREY J. HOUGH, JOHN W. HOLLIFIELD, DAVID L. PAGE, AND WILLIAM H. HARTMANN .....	390
Studies of End-stage Kidneys. III. Glycogen Deposition in Interstitial Cells of the Renal Medulla. MICHAEL D. HUGHSON, JOSEPH F. A. MC MANUS, CHARLES T. FITTS, AND ARTHUR V. WILLIAMS .....	400
Detection of Fibrin Monomer. Comparison of the Immune Precipitate Method with the Serial-dilution Protamine Sulfate Test and the Ethanol Gel Test. C. THOMAS KISKER .....	405
Platelet Counts in Capillary Blood. JAMES H. FEUSNER, JOYCE A. BEHRENS, JAMES C. DETTER, AND THOMAS C. CULLEN .....	410
Reliable Estimation of Hemoglobin A <sub>2</sub> Concentration by Electrophoresis with Densitometry. EUGENE L. GOTTFRIED, BARBARA WALL, AND NORMA A. ROBERTSON .....	415
Quantitation of Hemoglobin F. An Interlaboratory Study. EFFIE M. BROSIUS AND ROBERT M. SCHMIDT .....	421
Intralaboratory Quality Control of Hematology. Comparison of Two Systems. TERENCE R. J. LAPPIN, CHRISTOPHER L. FARRINGTON, MAURICE G. NELSON, AND JOHN D. MERRETT .....	426
Quantitation of Rheumatoid Factor Activity by Nephelometry. CLARENCE E. JONES, ROBERT J. ROUSSEAU, AND KAMERON W. MAXWELL .....	432
Detection of Experimental Bacteremia and Fungemia by Examination of Buffy Coat Prepared by a Micromethod. ANJA A. I. KOSTIALA, SEIJA JORMALAINEN, AND TIMO U. KOSUNEN .....	437
Coordinated Computer Reporting of Microbiology Data in the Clinical Laboratory. SIDNEY D. KOBERNICK, PHYLLIS A. HENDRY, AND JAMES E. GREER .....	444
Brief Scientific Reports:	
Increase of IgA-bearing Peripheral Blood Lymphocytes in Families of Patients with IgA Nephropathy. HIDETO SAKAI, YASUO NOMOTO, SHIGERU ARIMORI, KIYOKAZU KOMORI, HIRO INOUE, AND KIMIYOSHI TSUJI .....	452
Closing the Rh Immune Globulin Utilization Gap. NICHOLAS V. SIMON, LAWRENCE A. VIRGILIO, AND LINDA B. DEVENY .....	456
Pseudospirochetes, a Cause of Erroneous Diagnoses of Leptospirosis. THOMAS F. SMITH, ARLO D. WOLD, VIRGIL F. FAIRBANKS, JOHN A. WASHINGTON, II, AND CONRAD J. WILKOWSKA .....	459
A Rapid Staphylococcal Coagglutination Technic to Differentiate Group A from Other Streptococcal Groups. DONALD E. MATTHEU, JR., BENEDICT L. WASILAUSKAS, AND RICHARD A. STALLINGS .....	463
Inhibition by Ascorbic Acid (Vitamin C) of Chemical Detection of Blood in Urine. RUSSEL M. JAFFE, LINDA LAWRENCE, AL SCHMID, AND JAMES D. MACLOWRY .....	468
Case Reports:	
Pseudogonococcal Ophthalmia Neonatorum. <i>Branhamella (Neisseria) catarrhalis</i> Conjunctivitis. RONALD P. SPARK, PEGGY W. DAHLBERG, AND JAMES W. LABELLE .....	471
Cryptosporidiosis in an Immunosuppressed Renal-transplant Recipient with IgA Deficiency. WILLIAM R. WEISBURGER, DAVID F. HUTCHESON, JOHN H. YARDLEY, JEFFREY C. ROCHE, WILLIAM D. HILLIS, AND PATRICIA CHARACHE .....	473
Erythrocytic Ecdysis. An Unusual Morphologic Finding in a Case of Sickle Cell Anemia with Intercurrent Cold-agglutinin Syndrome. PATRICK C. J. WARD, CLARK M. SMITH, AND JAMES G. WHITE .....	479
Tumor-simulating Retrorectal Heterotopia of Bone Marrow. SILLOO B. KAPADIA AND ANISA I. KANBOUR .....	486
Myxomatous Degeneration of the Mitral Valve Complicated by Nonbacterial Thrombotic Endocarditis with Systemic Embolization. STANLEY J. GEYER AND DAISY A. FRANZINI .....	489
Letters to the Editor:	
Postmortem Vitreous Humor Chemistry in Sudden Infant Death Syndrome. WILLIAM Q. STURNER .....	493
Inhibition of Toluidine Blue O Stain for <i>Pneumocystis carinii</i> by Additives in the Diethyl Ether. OSVALD PETER SETTNES AND POUL-ERIK LARSEN .....	493

Synopsis of the Minutes of the Meeting of the Members of the American Society of Clinical Pathologists at the Fall Meeting, Thursday, September 21, 1978.	495
---	-----

## Number 4, October 1979

Nuclear DNA and Histologic Studies of Genital Lesions in Diethylstilbestrol-exposed Progeny. I. Intraepithelial Squamous Abnormalities. YAO S. FU, JAMES W. REAGAN, RALPH M. RICHART, AND DUANE E. TOWNSEND	503
Nuclear DNA and Histologic Studies of Genital Lesions in Diethylstilbestrol-exposed Progeny. II. Intraepithelial Glandular Abnormalities. YAO S. FU, JAMES W. REAGAN, RALPH W. RICHART, AND DUANE E. TOWNSEND	515
Myxoid Liposarcoma. An Ultrastructural Study of Two Cases. WILLIAM WETZEL AND RONALD ALEXANDER	521
Epithelial Foot-process Effacement in Patients with Proteinuria. WILLIAM M. MURPHY, FRANK L. MORETTA, AND ALINA F. JUKKOLA	529
Flow Cytofluorimetry in Routine Diagnostic Cytology. A Pilot Study. PRISCILLA D. TAFT AND LAWRENCE R. ADAMS	533
Malignant Lymphoma, T-cell Type. A Distinct Morphologic Variant with Large Multilobated Nuclei, with a Report of Four Cases. GERALDINE S. PINKUS, JONATHAN W. SAID, AND HILARY HARGREAVES	540
Acute Lymphoblastic Leukemia, Hand-mirror Variant. A Detailed Ultrastructural Study. JAMES W. SHARP, SANFORD A. STASS, WILLIAM J. CREGAN, L. L. PITTS, AND HAROLD R. SCHUMACHER	551
Proficiency Testing in Immunohematology in Ontario, Canada, 1975-1977. PETER H. PINKERTON, DONALD E. WOOD, KATHERINE L. BURNIE, KELVIN C. CARSTAIRS, BETTY E. E. CROUCHER, SHAUL EZER, DOROTHY C. H. LEY, JOHN A. MCBRIDE, JAMES F. MURRAY, AND MARIE C. QUANTZ	559
Estrogen Receptor Assay of Mammary Carcinomas. Effects of Testosterone-Estradiol-binding Globulin (TeBG) and Serum Estradiol-17 $\beta$ . JOHN S. MEYER, SUE C. STEVENS, NANCY VANDILLEN, AND WILMA L. WHITE	564
Serum Diazepam Concentrations in Overdose. Their Significance. PETER JATLOW, KENNETH DOBULAR, AND DAVID BAILEY	571
Cefaclor and Cefatrizine, New Investigational Orally Administered Cephalosporins. <i>In-Vitro</i> Collaborative Evaluation Against Clinical Bacterial Isolates and Comparison with Related Antimicrobics. RONALD N. JONES, PETER C. FUCHS, CLYDE THORNSBERRY, ARTHUR L. BARRY, THOMAS L. GAVAN, AND E. HUGH GERLACH	578
Evaluation of a Pectin Agar Medium for Isolation of <i>Yersinia enterocolitica</i> within 48 Hours. J. HARTLEY BOWEN AND SPYROS D. KOMINOS	586
Quality Control of the Latex-fixation Test. JACQUES M. SINGER, STEPHEN C. EDBERG, MELVIN SELINGER, AND MANUELA AMRAM	591
Performance of Latex-fixation Kits Used for Serologic Diagnosis of Rheumatoid Factor in Rheumatoid Arthritis Sera. JACQUES M. SINGER, STEPHEN C. EDBERG, ROBERT L. MARKOWITZ, JOEL D. GLICKMAN, LARRY MILLER, AND ROBERTO MARCHITELLI	597
Brief Scientific Reports:	
An Improved Microchromatographic Procedure for Separating HbA <sub>2</sub> from HbS for the Purpose of Quantitation. SAMUEL NOCHUMSON AND LEO M. MEYER	604
Pitfalls in the Interpretation of Leukocyte Counts of Newborn Infants. ROBERT D. CHRISTENSEN AND GERALD ROTHSTEIN	608
Nonspecific Esterases in Leukemic Blasts. Characterization by Isoelectric Focusing in Polyacrylamide Gel. LAWRENCE KASS AND DONALD MUNSTER	611
The Nature of Surface Immunoglobulin in Pure Monocytic (M5) Leukemia. RAYMOND R. TUBBS, RAFAEL VALENZUELA, RICHARD A. SAVAGE, AND SHARAD D. DEODHAR	614
Opportunistic Fungal Infection among Cancer Patients. A Ten-year Autopsy Study. SANG YON CHO AND HONG YUL CHOI	617
Urinary Myelin Figures in Gentamicin Nephrotoxicity. SHEILA MORIBER KATZ, SHEKEEB SUFIAN, AND TERU MATSUMOTO	621
An Evaluation of Two Methods of Laboratory Quality Control. IVOR CAVILL, CHRISTOPHER RICKETTS, JANET FISHER, AND BRIAN WALPOLE	624
Case Reports:	
Ultrastructure of Endometrial Stromal Foam Cells. ROBERT E. FECHNER, MATTIE I. BOSSART, AND HARLAN J. SPIJT	628
Propylene Glycol as a Cause of an Elevated Serum Osmolality. LEONAS BEKERIS, CATHERINE BAKER, JOHN FENTON, DOUGLAS KIMBALL, AND EDWARD BERMES	633
Actinomycotic Pulmonary Abscess in an Immunosuppressed Patient. ELLEN J. BARON, JAMES M. ANGEVINE, AND WALTER SUNDSTROM	637
<i>Micronema deletrix</i> Meningoencephalitis in an Adult Man. JOHN A. SHADDUCK, JOHN UBELAKER, AND VAN Q. TELFORD	640

# TABLE OF CONTENTS

A.J.C.P. • December 1979

News and Notices .....	644
------------------------	-----

## Abstracts:

Abstracts of Papers, Scientific Sessions of the Spring Program of the American Society of Clinical Pathologists, March 22-29, 1979 .....	645
--	-----

## Number 4 (S), Supplement to October 1979

### Thirteenth Annual ASCP Basic Science Research Symposium: Immunobiologic Advances for Classification, Diagnosis, and Treatment of Malignant Lymphomas

Introduction. WILLIAM O. RUSSELL .....	655
Prolog. ROBERT J. LUKES .....	656
The Immunologic Approach to the Pathology of Malignant Lymphomas. ROBERT J. LUKES .....	657
Immunologic Basis for the Redefinition of Malignant Lymphomas. JOHN W. PARKER .....	670
Results of Multiparameter Studies of B-Cell Lymphomas. CLIVE R. TAYLOR .....	687
Results of Multiparameter Studies of T-Cell Lymphoid Neoplasms. ROBERT D. COLLINS, JAMES A. WALDRON, AND ALAN D. GLICK .....	699
Immunoblastic Lymphadenopathy, Systemic Lupus Erythematosus, and Related Disorders, Possible Pathogenetic Pathways. ERNST GLEICHMANN, FERRY VAN ELVEN, AND HELGA GLEICHMANN .....	708
Neoplasms of Immunoregulatory Cells. SAMUEL BRODER, TAKASHI UCHIYAMA, AND THOMAS A. WALDMANN .....	724
The Biology of the HL-A System and the Association with Malignant Lymphomas. JAN G. VAN DEN TWEEL, DORIS J. DUGAS, AND JIMMY LOON .....	732
Multiparameter Studies in Lymphoid Leukemias. DANIEL CATOVSKY, SALLY PITTMAN, MAUREEN O'BRIEN, MARIA CHERCHI, CHRISTINE COSTELLO, ROBIN FOA, ELIZABETH PEARCE, A. VICTOR HOFFBRAND, GEORGE JANOSSY, KANAGABASAI GANESHAGURU, AND MELVYN F. GREAVES .....	736
Childhood Leukemia—Lymphoma. Heterogeneity of Phenotypes and Prognoses. JOHN H. KERSEY, TUCKER W. LEBIEN, RICHARD HURWITZ, MARK E. NESBIT, KAZIMIERA J. GAJL-PECZALSKA, DENMAN HAMMOND, DENIS P. MILLER, PETER F. COCCIA, AND SANFORD LEIKIN .....	746
Kinetic Studies of Cells in Childhood Leukemias. ALVIN M. MAUER AND SHARON B. MURPHY .....	753
A Dynamic Interpretation of Multiparameter Studies in the Lymphomas. STANLEY E. SHACKNEY AND KAREN SKRAMSTAD .....	756

## Number 5, November 1979

Chordoma. A Clinicopathologic Study of Metastasis. PATRICK W. CHAMBERS AND CHARLES P. SCHWINN .....	765
Eosinophilic Cystitis. A Study of 16 Cases. H. RICHARD HELLSTROM, BRIDGETT K. DAVIS, AND JOHN W. SHONNARD .....	777
Lipomatous Hypertrophy of the Cardiac Interatrial Septum. A Report of 38 Cases and Review of the Literature. CESAR V. REYES AND VICTOR R. JABLOKOW .....	785
Expression of Monocytic-Histiocytic Cytochemical Markers in Epithelial Neoplasia. RAYMOND R. TUBBS, RICHARD A. SAVAGE, ROBERT H. CRABTREE, BRUCE A. SEBEK, RAFAEL VALENZUELA, AND SANFORD P. BENJAMIN .....	789
Phencyclidine Abuse. Clinical Findings and Concentrations in Biological Fluids after Nonfatal Intoxication. DAVID N. BAILEY .....	795
Selective IgA Deficiency in Charcot-Marie-Tooth Disease. LOWELL L. WILLIAMS AND GERALD M. PENN .....	800
Persistent Falsely Positive Rapid Tests for Infectious Mononucleosis. Report of Five Cases with Four-Six-year Follow-up Data. CHARLES A. HORWITZ, WERNER HENLE, GERTRUDE HENLE, GERALD PENN, NEIL HOFFMAN, AND PATRICK C. J. WARD .....	807
An Evaluation of Cellularity in Various Types of Bone Marrow Specimens. TSENG P. FONG, LAURENCE A. OKAFOR, THOMAS H. SCHMITZ, WILLIAM THOMAS, AND MAXWELL P. WESTERMAN .....	812
Serum Ferritin and Bone Marrow Iron Stores. I. Correlation with Absence of Iron in Biopsy Specimens. JOHN R. KRAUSE AND VIKTOR STOLC .....	817
A Rapid Factor VIII-related Antigen Electroimmunoassay. A Micromethod Using Commercial Antisera. CONSTANCE MOEHRING .....	821
Clinical Usefulness of the <i>Crithidia luciliae</i> Test for Antibodies to Native DNA. THERESA L. WHITESIDE AND JONATHAN A. DIXON .....	829
Detection of Soluble Group A Streptococcal Antigen in Broth Culture. KAREN K. DURFEE, JESSE H. MARYMONT, JR., ALVIN SARACHEK, AND JOHN P. SMITH .....	836
Manual and Computerized Cumulative Reporting Systems for the Clinical Microbiology Laboratory. AARON LUPOVITCH, JOSEPH J. MEMMINGER, III, AND ROBERT M. CORR .....	841



## Brief Scientific Reports:

The Effect of Tocopherol on High-density Lipoprotein Cholesterol. A Clinical Observation. WILLIAM J. HERMANN, JR., KAREN WARD, AND JAMES FAUCETT .....	848
Leucomalachite Green Assay for Free Hemoglobin in Serum. DAVID SLAUNWHITE, JAMES CLEMENTS, ROBERT L. TUGGEY, AND GUSTAVO REYNOSO .....	852
Bovine Plasma as a Reference Standard for the Factor VIII Assay. HERBERT A. PERKINS AND PETER G. HYMAS ...	855
<i>In-vitro</i> Activities of Cefamandole and Cephalothin Against 1,881 Clinical Isolates. A Multi-center Study. ARTHUR L. BARRY, FRITZ D. SCHOENKNECT, SMITH SHADOMY, JOHN C. SHERRIS, CLYDE THORNSBERRY, JOHN A. WASHINGTON, AND ROBERT B. KAMMER .....	858
Evaluation of the Moving Intermediate Zone Concept for Determining Susceptibility of Pseudomonads to Gentamicin by the Standardized Disk Agar-diffusion Test. BERT F. WOOLFREY, WILLIAM A. RAMADEI, AND CHARLES O. QUALL .....	861
A System for Reporting Quantitative Antimicrobial Susceptibility Test Results. ARTHUR L. BARRY .....	864
The Efficacies of Common Dyes in Primary Isolation Media for Recovery of Pathogenic Fungi. TIMOTHY W. BRILLIANDE, GARY E. HOLICK, AND HOWARD W. LARSH .....	868

## Case Reports:

Pulmonary Silicosis. A Case Diagnosed by Needle-aspiration Biopsy and Energy-dispersive X-ray Analysis. LESLIE W. ROUB, ANDREW DEKKER, HOWARD W. WAGENBLAST, AND G. JOHN REECE .....	871
Ultrastructure of Myofibroblasts and Decidualized Cells in Leiomyomatosis Peritonealis Disseminata. PETER C. PIESLOR, JAN MARC ORENSTEIN, DANIEL L. HOGAN, AND ALEXANDER BRESLOW .....	875
Septicemia Caused by <i>Pseudomonas paucimobilis</i> . IRVING J. SLOTNICK, JAMES HALL, AND HARRY SACKS .....	882

## Letters to the Editor:

The Clinical View of Turnaround Times for Stat Tests. JON M. MURPHY, LLOYD A. PENBERTHY, AND CALLUM G. FRASER .....	885
Histochemical Demonstration of Leukocytic Acid Phosphatase. WILLIAM H. STARKWEATHER AND RONALD L. SEARCY .....	886
The Authors' Reply. ANTHONY J. JANCKILA AND LUNG T. YAM .....	886

## Number 6, December 1979

Current Status of Marrow Transplantation for Aplastic Anemia and Acute Leukemia. The Philip Levine Award Lecture. E. DONNALL THOMAS .....	887
Antileukocyte Antibodies in Patients Refractory to Platelet Transfusions. BRUCE R. MACPHERSON AND ROBERT G. WESTPHAL .....	893
Terminal Deoxynucleotidyl Transferase Immunofluorescence of Bone Marrow Smears. Experience in 156 Cases. SANFORD A. STASS, HAROLD R. SCHUMACHER, THEODORE P. KENEKLIS, AND FREDERICK J. BOLLUM .....	898
Whole-blood Hemoglobin Determinations. A Comparison of Methodologies. JOYCE A. BEHRENS, WARREN P. BROWN, DONALD F. GIBSON, AND JAMES C. DETTER .....	904
Solid and Mucinous Varieties of So-called Mammary Carcinoid Tumors. EDWIN R. FISHER, ALKA S. PALEKAR, AND NSABP COLLABORATORS .....	909
Extralobar Pulmonary Sequestration. Analysis of 15 Cases. J. THOMAS STOCKER AND KATHLEEN KAGAN-HALLET .....	917
Diagnostic Yield of Transbronchoscopic Biopsies. ROSEMARY JENKINS, RICHARD L. MYEROWITZ, THOMAS KAVIC, AND SIMON SLASKY .....	926
Diagnostic Cytology of Cerebrospinal Fluid by the Cytoentrifuge Method. HO-SOON H. CHOI AND PAUL J. ANDERSON .....	931
Prostate-specific Acid Phosphatase. Purification and Specific Antibody Production in Rabbits. G. PAUL DE VRIES, ADA W. SLOB, ADRIAAN C. JÖBSIS, A. E. F. HUGO MEIJER, AND GERARD T. B. SANDERS .....	944
A Comparison of Hard and Soft Glass Blood-drawing Tubes. RONALD H. LAESSIG, DAVID J. HASSEMER, GARY L. HOFFMAN, JAMES O. WESTGARD, R. NEILL CAREY, AND DONALD H. FELDBRUEGGE .....	952
Neutrophil Migration under Agarose. Quantitation and Variables. LEWIS GLASSER AND ROGER L. FIEDERLEIN .....	956
Diagnostic Value of Candida Precipitins Determined by Counterimmunoelectrophoresis in Patients with Acute Leukemia. A Prospective Study. RICHARD L. MYEROWITZ, HERBERT LAYMAN, SIGURDUR PETURSSON, AND ROBERT B. YEE .....	963
Comparison of Three Transport Systems for Recovery of Aerobes and Anaerobes from Wounds. JOHN H. MCCONVILLE, RICHARD F. TIMMONS, AND SHARON L. HANSEN .....	968

## TABLE OF CONTENTS

A.J.C.P. • December 1979

## Brief Scientific Reports:

Pericardial-fluid Complement. Normal Values. EVLIN KINNEY, JONATHAN WYNN, DENNIS M. HINTON, LAURENCE DEMERS, MARTIN O'NEILL, GRANT PARR, SAMUEL WARD, AND ROBERT ZELIS .....	972
<i>Listeria monocytogenes</i> . Synergistic Effects of Ampicillin and Gentamicin. PARVIN H. AZIMI, KATALIN KORANYI, AND KATHRYN D. LINDSEY .....	974
Storage and Transport of Cultures for Herpes Simplex Virus, Type 2. ANNE S. YEAGER, JONATHAN E. MORRIS, AND CHARLES G. PROBER .....	977
A Semiquantitative Culture Technic for Identifying Infection Due to Steel Needles Used for Intravenous Therapy. JEFFREY D. BAND, CARLA J. ALVARADO, AND DENNIS G. MAKI .....	980
Quality Assurance of Gram-stained Direct Smears. RAYMOND C. BARTLETT, JANICE TETREAU, JANE EVERS, JANET OFFICER, AND JUDITH DERENCH .....	984
An Improved Assay for von Willebrand Factor. DAVID R. HEAD, ROBERT P. BOWMAN, DANIEL J. MARMER, AND ARTHUR D. BROSSOIT .....	991
Rapid Assay for von Willebrand Factor Activity Using Formalin-fixed Platelets and Microtitration Technic. ROSEMARY RAMSEY AND BRUCE LEE EVATT .....	996
Laboratory Prediction of the Carrier State in Hemophilia B. Role of Replication of Assays. LESLIE LIPWORTH, CHERYL Y. TIARKS, CINDY A. RICE, AND LIBERTO PECHET .....	1000
Pseudothrombocytopenia Due to Agglutinins. WILLEM A. VEENHOVEN, GERDA S. VAN DER SCHANS, WUPKE HUIGES, HILDA E. METTING-SCHERPHUIS, M. RUDOLF HALIE, AND HENDRIK O. NIEWEG .....	1005
Metastatic Neuroblastoma in Bone Marrow Aspirate Smears. DAVID R. HEAD, PETER S. KENNEDY, AND RICHARD E. GOYETTE .....	1008
A Quick and Easy Method for the Staining of Reticulocytes. SETH CROSBY .....	1011
An Archival System for Clinical Laboratory Data. LOUIS R. PRYOR AND V. DEAN FREEMAN .....	1013

## Case Reports:

A Hypodiploid Clone and Its Duplicate in Acute Lymphoblastic Leukemia. FIORELLA SHABTAI, URI H. LEWINSKI, LEA HAR-ZAHAV, UZI GAFTER, ISAAC HALBRECHT, AND MEIR DJALDETTI .....	1018
Tn-Polyagglutinability Associated with Acute Myelomonocytic Leukemia. MICHAEL L. BALDWIN, CHRISTINE BARRASSO, AND REN L. RIDOLFI .....	1024
Hemoglobin Cowtown ( $\beta$ 146 HC3 His-Leu). A Mutant with High Oxygen Affinity and Erythrocytosis. ROSE G. SCHNEIDER, JOHN E. BREMNER, BERNADINE BRIMHALL, RICHARD T. JONES, AND TZU-BI SHIH .....	1028
Meningitis and Septicemia Due to <i>Klebsiella ozaenae</i> . JAY F. LEWIS AND JANE J. ALEXANDER .....	1033
Hepatitis B-associated Membranous Glomerulonephritis in a Child. MEREDITH M. SILVER, C. PHILLIPS RANCE, PETER J. MIDDLETON, AND JOHANNES HUBER .....	1034

## Letters to the Editor:

Controls for Slide Differential Tests for Infectious Mononucleosis. LAWRENCE G. HEFTER AND MICHELE STONER ....	1040
Macroscopic Urinalysis as a Screening Procedure. ARNOLD R. TAMMES .....	1040
The Author's Reply. G. BERRY SCHUMANN .....	1041
Microscopic Urinalysis as a Screening Procedure. RICHARD T. O'KELL .....	1041
The Author's Reply. G. BERRY SCHUMANN .....	1042

## In Memoriam:

Frank Wilbur Hartman, M.D. JOE M. BLUMBERG .....	1043
William Boyd, M.D., L.L.D. J. A. CUNNINGHAM .....	1044
Index to Volume 72 .....	1047

